

(A) LENGTH: 539 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 656:

10 GTATCCATGG GCCCGTThCG CACAACATTt GgACAATTA GGTACACGnG TTGTCaTCGG 60
 TCGITTCGGT ATAATTTTAT CGAATGaAGG CGGTGCGTTA CAACAATGA AACTACCATA 120
 CGAATATTAC ATTGTTGGTA AATTAGCTTC TGTCAACAA TGGTATTCAT GGATTATAT 180
 15 CAATGATTTA ATTCAGCTA TTTTATTTTT AATAAATAAC GAGTCAGCTA GTGGTCCGTT 240
 TAATTTAACT GCACCTATAC CTGAACGTCA AAATTTATTT GGCTACACTT TAGCAAGAGC 300
 TATGCATAAG CCTCATGAAA CTGGGCACC AAGCTTTGCA ATGCGTCTCA TACTTGGTCA 360
 20 AATGTCAACA GTAGTATTGG ATACTCAAAA AGTATTACCT aTAAAAATTC AAGCATTGGG 420
 aTTCCAATTT AAATATAGTA ATTTAAAAAT GgACTTGAA GATTTAATTA AAGAATAATC 480
 AATACCATTA ATGAGCATTa GAAACAACAT ATGTACTAAA TGTAATGTCT AGAGCGACT 539

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(2) INFORMATION FOR SEQ ID NO: 657:

(1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1106 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 657:

ATCAAGTTGA ATATCATCCA TATTTAACCC AACATAAATt GArATTATAT TTGGCAGCAC 60
 AACGTATCGT gATGgaATCT TGGTCACCAT TGATGAATGC ACAAAATTTA AATGATGAGA 120
 40 CAATTAAAGA CATTGTCTCA GAATTAGGAA AGTCACCTGC CCAAGTTGTT TTAAGATGGA 180
 ATGTGCAGCA TGCTGTGGTT ACAATCCCTA AATCGGTGAC ACCAAACAGA ATCTCTGAAA 240
 45 ATTTCCAAAT ATTTGATTTC GAATTATCAG ATGAACAAAT GACGCGAATT GATGGTTTAA 300
 ATCAAGATAA GAGAATTGGA CTGATCCAA AAAAAATTGA AGGCTAGATT AAAATCGCTC 360
 AACTGATGAA AAGGTTAGAT GAATTGTCAG GGCTTGGGAC ATTAAGTTCT TAGGCAATGT 420
 50 AAAAAAGCTG ATTTCTATTA ATTATTGAT AGAAATCAGC TTTTTTGATA TGTATTTTAT 480
 AATGTACAGC TCGTTGAGCT GCTATTTTCC TTATATTAAg TGCCATTAAAT ACAAAACCTA 540
 GCTCTCGTTT AACTTTATTT AtTCCTCGAA CTGACGTTG AGTTAAACCC AAAATAGCCT 600

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CTGTTTCAGA AAGCTTTTGA TTAATTTGGA CTTTAAAGTA TTCCCAATTA TAATCTTCA 720
 TGATTCTCTT ATTGGATTTT GAATTTGGTT TCATGCATTG TTGCCTCAAA GAACATGCTG 780
 5 AACAGTCATC GCATTACATAT AGTTTGAAGT CTCGTTTAAA ACCATATCTA TCATTACGGT 840
 ATGCATACTT TTTAAAACTT ATCTTTTGTG TATTAGGACA TATAAATTCA TCATTAAGTT 900
 CGTCATAATT CCAATTTTGA GTGTCGAAAA TGTCACTTTT AAACCTTTCTA GTTTTATCT 960
 10 TAATAAACAT GCCATACGTA ATAAGTGGCG TTTTATTAAA ATCATCTATA ATGGCCATAT 1020
 AGTTTTGGCT CACTACCCAT AACCTGGCAT CAGTACCAA ATGAACCGAA GGGATTTTTG 1080
 15 GAATCCCAITG GTTGAACAAA TGGGAA 1106

(2) INFORMATION FOR SEQ ID NO: 658:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 658:

TTTAACTTT ACTCTTTGAT TTAAGAGTG ATAAATGTTT ACAGTTTAAAT TAAACTGCA 60
 TAAGAAGCTC TAGCTTTTCT CTTTCGTTCA AAGAGAAGCA GCTGTTGCA GTTTAATCAA 120
 30 AACCACATAA AGCTTTTAAC TTTACTCTTT GATTTAAAGA GTGATAAATG TTTACAGTTT 180
 AATTAAACT GCATAAGAAC TTCTAGCTTT TCTCTTTCTG TCAAAGAGAA GCAGCTGTTT 240
 GCAGTTTAAAT CAAACCCACA TAAAGCTTTT AACTTTACTC TTTGATTTAA AGAGTGACAA 300
 35 ATGTTTACAG TTTAATTAAA ACTGCATAAG AACTTCTAGC TTTTCTCTTT CGTTCAAAGA 360
 GAAGTTCTAA TACCACCATA TCGTGCATC GCGAACGGTA 400

(2) INFORMATION FOR SEQ ID NO: 659:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1899 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 659:

ATAATTCAA TGGCTACTGC AATTATTGTT GGAATTATAT ATTTCAAGTT AGTCATCATT 60
 TATGCTCCCT TGATTTCAA TCCATATCAT TAGTTTACCA TATTGAAGAT GATATAATAA 120

	AACITTTAACT GAGCTTCATG GGGCACCAGG TTTTGAAGAA GAAGTAAAAA ATTATATGAC	240
	TCAGCAAATG GCGCGTIACG TAGATGAATT TATTGAAAAA CGTATGGGTG GATTTTTTGG	300
5	TGTGAAAAAA TCTAAAAATC CAAATGCAAA ACGTGTAATG ATTGCAGCAC ATATGGaTGA	360
	AATCGGATTT ATGATTACAA ATATCACTAA AAATGGAATG ATTCAATTCA CAAATTTAGG	420
	TGGTGTTGCA AATGATATTT GGCAAGGACA ACGCTTAGTA ATTA AAAATA GAAATGGCGA	480
10	TAAAATTATC GGTGTTGTTT CTAATATACC TAAACATTTT CGTACTGGTA GTGAAGGTGC	540
	ACCGGAAATT AAAGATTTAA CATTAGATAT AGGTGCTCAA AATGAAGATG AGGTGCGTGA	600
15	gCGCGGAATA GATATAGGAG ATACAATTGT ACCTCACACG CCATTACACG AGTTATCTGA	660
	ACATCGATAT AGTGCTAAAG CATGGGATAA TCGTTATGTT TGTGCTTGG CAATTGAAAT	720
	ACTAGAATTA TTA AAAAGATA TAGAATTAGA TGTAGACTTG TATGTTGGCG CAAATGTTCA	780
20	AGAAGAAGTT GGATTACGAG GTGCGAAAGC ATCTGCAGAG ATGATAGACC CAGACGTTGC	840
	ATTTGTAGTT GATTGTTTAC CTGCCAATGA CGTTAAAGGA AACCAACCAT TATCTGGTGA	900
	ACTTGGTAAA GGGACGTTAA TTGCGATAAA AGACGGTACA ATGATTTTAA AGCCTGTATT	960
25	TAGAGACTAT TTATTAAGT TAGTAGAAGC ACATGACATT GAACATCAAT ACTATATGTC	1020
	ACCAGGTGGA ACAGATGGTG GAGAAATTCA TAAAGCTAAT ATTGGTATTC CGACTGCAGT	1080
	TATTGGTGTA TGTGCACGAT ATATTCATAG TACAGACTCA GTATTTGATA TAAGAGACTA	1140
30	TTTTGCAGCT AGATCTTTAC TTTCAGAAGC CATTGTGTAAT TTGATAATA ATCAAAATAGA	1200
	AACATTACAA TATAAATAAT CCGGTAATAA CAACTATTAT CTCTAAATAG TTATATATAA	1260
35	TCATTTAATTA AGGAGACATA AAAATGAAAC AACITGAATC AGAACACAA TTTGAATCTT	1320
	TAAAAACAAGG TGCTACAGTA TTTGAATTCA CTGCAGGCTG GTGCCAGAT TGTAGAGTGA	1380
	TAGAACCAGA TTTACCGGAA TTAGAAGCGA GATATCCTAT GTTTGACTTC GTATCAGTAG	1440
40	ACCGTGATAA ATTTATGGAT ATTTGTATTG AAAATGGTAT TATGGGTATT CCAAGTTTTC	1500
	TAGTATATAA AAATGGAGAA CTGCTTGGAA GTTATATTGG AAAAGAACGA AAATCAATTG	1560
	AACAGATAGA TGCAATTTTA GCTCAATACG TGTAAATTTAG ACTAGAGAAA AACGGGGTAA	1620
45	TACTCGTTTT TCTCTGTAC TATGTGTTGA TTTATTGTAA ACTATTATAA GGTGCGAAAT	1680
	TAGGAGTGTT ACATATGAAT ACCTTTCAAA TGAGAGATAA ATTAAGGAA CGTTTAAAGCC	1740
	ATTTAGACGT TGATTTTAAA TTTAATCGTG AAGAAGAAAC TTTGCGTATT TATCGAACAG	1800
50	ATAATAACAA AGGTATCACG ATTAACCTTA ACGCTATAGT CGCAAAATAT GAAGATAAAA	1860
	AAGAAAAAAT TGTAGATGAA ATTTGTTTATT ACGTTGATG	1899

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3774 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 660:

10	GTATAATATC CTTTCAATCT GTTTTCATAT TTTATATATT TTTAAATAT AAGTGCTAAA	60
	TGTTTAACT AAGCATAGA TTGACAGAT GTTATACAGA ATTTCAAATT CTATCCAATA	120
15	TTGTTCCAAG TGTAGTATCA CTGGATTGGT ATTAACAAT GTAAAGGAGA GATTGCAAA	180
	GCGGTATAAT TACAAGAAAC AAAATGGAGA GTTAATGTCT GTAATGAGCC AAGGTGAAA	240
	GTTTATTCAT CAATCACCCG TTAATGATGA ACTTAGTGCA TTGATTAAAT TATTAATTTT	300
20	TAAATTAAC GGTGTGTCATT ATTGTGTGA TATCCATAAA AAAGAATTAA AGGAATTGGG	360
	TGTAACACAA ATGAAAATTG ATGAAGTCTT GAGTTTAGA CATTTAGATT TATTTACTGA	420
	TCAAGAAAAA GTGACGGCTG AATTGTCAGA AATGTTAAAT TCAATCAAAG ACTTTAAGAA	480
25	GTITGAAATT ATTGACGGC TAAATCATT TTATGATGAA GAACAAATTA TTGATCTTGT	540
	CTTTGTTGTA AACCAATTA ACGTTGGAA CAGATTAAAT ATTATTAGTG ATAGACTATA	600
	ATTGTTTATA TAAATGCAGA GTTTCATCTC GAACGTATA TCATAACAA TCATGCCACT	660
30	ATACAGGTCA AATCTTGTAT AGTGGCATT TAAITTTATCC CTTTGAATAC TGTATTATTAA	720
	CGAATATCGG TCCACCTGGT CCAACAGGGA TACCTAATAG GAACCAAATG ATGACAAATA	780
35	CTGTCCATAC AATACTTAGC GCGATTGAAT ACGGCATTAA ACTAGAAAGT AAGGTCCTGA	840
	GTTTCATGCG TTTATCGTAT TTTTGTGCAT AAGTTAATAA TAAAGGTAAG TACGGCATCA	900
	TCGGTGTAA TGGATTGGTA ATTGAATCGC CTACACGGTA AATGACTTGT GTGAATGCGG	960
40	GATGAAAGCC GATAAGGATT AACATTGGTA CGAATATCGG TCCTAAAATA CCCCATTAG	1020
	CCGATGCGCT TCCGATTAAAC ATGTTGACCA TTGCACTCAG TACAATAATA CCTAGTATCA	1080
	ATACAATACC GTTTTGATGT TCTAATAATT TGGCACCTTT AACAGCAGCG ATAATTCCTA	1140
45	AATTACTCCA CTTTAAATAC GCAAGTAGCT GTGCTGCAAA AAACACAATA ACGATAAATG	1200
	TTCCATTGA TCCTACAGCA TCGCCGAACA TTTTACCTAA GTCTTTTGT TTTTAAATTT	1260
50	CTTTGCTTAA AATCCCATAA ACTAATCCAG GTACTAAAAA TACGACAAGA ATAATTAATC	1320
	CGACACCGTT AATTAATGGC GCATCGTCTA GTAAGCTGCC TGTITTTAGCA TTTCITAAAA	1380
	ACGTAATGTT AGGAATGGCT GTAATAATTA ATAAAAATAA TGTGACTATG AAACGTGAT	1440

	CATCATGCA	TAACTGTCA	TCATATTTTC	CTAATCTAGG	AATAATGAGC	TTAGTTGTAA	1560
	CTAGCAATAT	CGTAGGAAGT	AATACAACGA	CACTCGTGC	GATAAAGTAC	CAGTTCATAG	1620
5	CAACGTTTGT	TTTAATAGAA	TCTGAAACGA	TACGTGTTGC	CGGTTCTGTA	AATGAATAGA	1680
	CCAAGCATC	TTGCATACCA	ACAACATATAT	TTGCTGCAAA	TCCTCCAACA	GCGGAAGCAT	1740
	ATGCCATCGT	TAGTCCAGCG	ATAGGGTGAT	AGCCAATTTT	AATAAAAAGC	ATTGCTGCAA	1800
10	GCGCGCGCAA	GATAATTGTC	GCAGCATCGC	CGGCTGTACT	ACCTAAAATA	CCAATTAATA	1860
	TAATAGTCGG	TAAAAATAG	AAACGTGGTG	CGCGATTAC	AACAGAAATC	ATTAACCTAT	1920
15	CGAAGTATCC	TGTTTTCTCT	GCAACACCAA	TACCAATCAT	CACTGCTAGT	ACTAAGCCTA	1980
	ATGCTGGGAA	CTCTGAGAAA	TTTTTAATCG	TATCATTCAT	TATCATCGTA	AATCCATCAT	2040
	GGCTAAATTAT	ATTTTTAATA	TAAATGGTTT	GATGCGTIACC	TGGATGCTTA	ACAGATACAT	2100
20	TAAATAATGA	GATAACCCAT	GTCAATAATGG	CTAAGCCCA	ACACATTAAA	AAGAATAAGA	2160
	CGCTAGGATC	TGGCAATTTA	TTTCCGATTT	TTTCAACACT	ATTCAAGAAA	CGATTGACGA	2220
	TAGACCCCTT	TTGTTGATGT	TTTGATGTCA	TCAATTATTC	CCCCCTTTGT	TAAATATTTA	2280
25	AAGTGTAAACA	AAAAATACTC	TCAAAAGTAA	CAATTTTCAG	GAATAAAAAA	AACATAATATT	2340
	GTAAATATT	TTGAGTTATT	CAATAGAAAAG	TGTATAGCAG	AGTAGTTAAG	ACTGCTGAA	2400
	GACTTATCTA	TTAGTTTTAT	GAAGCATCGA	ACAGTGGAAA	ATAAGGACTG	TAAGTTTAAG	2460
30	ATATGTTGTA	TAGGAGTGAC	TGAATGAAAC	GTTTGGAATA	TAAAGTAGCA	GTCTAACAG	2520
	GAGCAAGTAC	AGGTATCGGT	CAAGCTTCTG	CAATCGCTTT	AGCTCAATAA	GGTGCGTATG	2580
35	TATTGGCGGT	AGACATAGCT	GAAGCGGTAT	CGGAGACTGT	CGATAAAATT	AAAAGTAATG	2640
	GTGACAATGC	GANGCGGTAT	AATGTGGATA	ATGCAAGCGA	ACAACAAGTG	GTAGACTTTG	2700
	TGTCGACAT	AANGGAACAG	TTTGAAGAAA	TCGATGTGTT	GTTTAATAAT	GCCGGTGTGG	2760
40	ATAATGCGGC	TGATAGAATT	CATGAGTATC	CAATAGATGT	GTATGACAAG	ATTATGAATG	2820
	TAGATATGCG	TGGGACATTT	TTAATGACGA	AAATGATGTT	ACCTTTAATG	ATGAATCAAG	2880
	GTGGCTCTAT	TGTTAATAGC	TCTTCATTTT	CCGGACAAGC	AGCAGACTTG	TATCGCTCTG	2940
45	GATATAATGC	TGCGAAAGGT	GCAGTGATTA	ATTTTACAAA	ATCAATCGCA	ATTGAGTATG	3000
	GCCGTGATAG	CATTGAGGCC	AATGCGATTG	CACCAGGTAC	AATTGAAACC	CGTTAGTAG	3060
	ATAAAGTAC	AGGTACGAGT	GAGGATGATG	CAGGTAAAAC	ATTAGAGAAA	AATCAAAAAT	3120
50	GGATGACTCC	GCTGGGACGT	TTAGGTAAAC	CAGAGAAGT	TGCTAAATTA	GTAGTCITCT	3180
	TAGCATCTGA	CGACAGTTCA	TTCAATACTG	GAGAGACGAT	TCGAATTGAT	GGTGGTGTGA	3240

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AATTATTAA AATCGATATC CAGTGGAAAA GAATTTGGCA TGAAGTAGGC AATGTATGCA 3360
 TATTGTGCGCA ATGAAGACA TTAAAGCGG AGATTAAATTA ATCTTTGAAA ATCACATATT 3420
 5 GTTCATTGGA AGTGATTGCG TTAAAGCTTG TTTTAAACGTA TTGTAGGTG TGCATCTAAT 3480
 TTATCAGAAT CTCGAGTTCA AACTTTTGGG GTATCTTTAA AATAAGCTGT ATTTTGCTTA 3540
 10 TTTCTAATAA TTAAGGAGAA TTTTATGTTA AAAGAAAAAG AAAGTTTTAG ATTTGCTATAT 3600
 CAAGCTATAA GAGAGATTGC AGATAAAATT GGAGATAATC AGTTAGAAAC TAATTCGGTT 3660
 AGTTTATATAT CATTGGACTT TGATTTTGAA CATGAAGTAT TTGATGAATT GTATCTGTG 3720
 15 ATTTCAAAAT ATTTAAATAC AGTAAGTATA GAGAACATAA GTCATAGTGA GCTT 3774

(2) INFORMATION FOR SEQ ID NO: 661:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1078 base pairs
 20 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 661:

TACTGTTTT GCATTTTGGG GGTAATACAG TACCTAATAG TAATnATGGT GTGTCAnAA 60
 TTATATCTTT CGTGATGTT CTTACTCATT AGAACATnG CCTTCAGAGG AATCATGATA 120
 30 CGAGGAATAA GAAATTTAAA TGTGAGCGAA GTCAATATAG TATTTGCGAT TATTTTTATT 180
 AACTCCATTA TTATTGTTAG TTTGATTTTT CGAGGATAAC TTCAATTTTT GCATTTTGAG 240
 35 GTTTTTTAAC ATATCTATTT GCATCAGTTG ATGGCAACCT TTTACTTAAA TCTATTGTGT 300
 AGTTATTGTC TGCACCTGTT ATTTTAATTT GTCCTTTATT ATAAGAATTA TTATATAATT 360
 TTTTACTTTT AATTAATGTT TGACGAATAC GAAATCTAA TTCTTTTAAA GTTAAACAG 420
 40 GCTTATTGCC TTCATAAAT GGAAATCCGC CAGTAAACGT TTCTGCTTTA TCTTTATATG 480
 TTACATTGAG TTTATAGTGT TTATCGTTAG ATGTTGCTGC AGGAGTAACA CCACCAGTAA 540
 ACGTTCTTG AGATAATGCA AAAGaATCAA TGGTTTCTTG GTCTTTTATG CyAAAAATAT 600
 45 CAACGCTTTT ATTTCTTAAAT TGGTTGATAT TGCCCAACT TTCAGGTCCA TAACTTGAA 660
 TATGACTATA CCAAGAAAAC TGTAACAACG TTGATGAAT CgTACGTTA TCTTTTGCC 720
 50 ATAACGTACT GTTAGGAAG GTTAATATT TTTCGAGTA ATATTAGTT AACTCATTAA 780
 CGTTAGTTTC GTTTTGATT ATATAAaAG CTTTCGCTC AGATGAAGAA TTGATAGTG 840
 TATTAGGAAA TTGTGATAGT GCTGTACCTA ATAGTAACAA TGTTGTTGAT AAAATAATTT 900

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ATAAAAAGGG GTTAATTAGA TAATTGAAAT TATCCGCATT TACAAAAGGT AATAGGTTAG 1020
 TTAGATTTTT CGAGTAGTAC TcAATTCTG CATTACGAGG ATTTTAAACA TAACGGTT 1078

5 (2) INFORMATION FOR SEQ ID NO: 662:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1398 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 662:

AAC TTGCTTT TTAGTATCTA CGTTAATATT AATAGCTTTA ATTTCACTTG TATTAATTAA 60
 ATCAGCTGTG TAAATACCTG CTTTCAAATC GATAACCTTC TTTGTTCCAT TTTTAAAGTA 120
 20 AACAGTATAT TTCGCTTGCT TCGATAGTCT TAAATCTATA TCACTAATAC CTCGTGCTGA 180
 TTTTAAAACT GATTTAACTC TATCCTCTAA ATCTTTATAA CTAAATATTT GATTCCTATT 240
 AAATGTTAAG CTTGATAAAA TATTTTGGCT TGTACCGTTC ACAGTGaTTG CATATGGAAC 300
 25 ATGGACTTTA GAATATCCAT GGTGTAACGA ACTTGATGAT TTATCTAATG GCTTAGCTGC 360
 GGCAGACGCT TCATTATTAT TAAAGTTTGC ACCTGTTGAT GCTAAAACAC CTAATGCTAA 420
 AGTTGTTGTA ATCAATGACT TAAATTTTCA TAAATATCTC TCCTTTTTTG TGTAATTCGT 480
 30 ATTTGCAACT TAATTATAGC CAGACTTTCT CTATTTTTTG AATTAACTGA ATATTAATAA 540
 TAAATTATCT TTAACAATAA TTTTTTAAACA CTGTTAAAAG TTCTTTTAAT TTTGATTAAAC 600
 TAATTAAATT ACAATACCTA AAATGTTGTT TGGTTTGTG TATACCAAGC TTCAAACTTA 660
 35 AATGTCATAA CAACATTCAT TTCTTAATTC CTATTAGATT TGTCGATTAT ATTTACAGCA 720
 TCCTTTACTC CAAAAACAT TTACTTAAAA ATATAAATTC GATTTAATAA TTAATTAAAA 780
 40 TTTAGTTAAT CAATTTTGCA TCTAATTTGT TGTAAGCTAT ATAAAAGGAG TGATAATGAT 840
 GGTGAAAAA ACAAAATCCA ATTCATAAAA AAAAGTTGCA ACACCTGCAT TAGCAAAATT 900
 ATTATTAGTT GGTGCACCTA CTGaCAATAG TGCCAAAGCC GAATCTAAGA AAGATGATAC 960
 45 TGATTTGAAG TTAGTTAGTC ATAACGTTTA TATGTTATCG ACCGTTTTGT ATCCAAACTG 1020
 GGGGCAATAT AAACGCGCTG ATTTAATCGG ACAATCTTCT TATATTAATA ATAATGATGT 1080
 CGTAATATTC AATGAAGCAT TTGATAATGG TGCATCAGAC AAATTATTAA GTAATTGTGA 1140
 50 AAAAGAATAT CCTTATCAAA CACCTGTA CTGCGGTTCT CAATCAGGGT GGGACAAAAC 1200
 TGAAGGTAGC TACTCATCAA CTGTTGCAGA AGATGGTGGC GTAGCGATTG TAAGTAAATA 1260

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CAACAAAGGC TTGTTTATA CAAAAATAGA GAAAAATGGT AAGAAGCTTC ACGTTATCGG 1380
TACACATACA CAATCTGA 1398

5 (2) INFORMATION FOR SEQ ID NO: 663:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 1200 base pairs
(B) TYPE: nucleic acid
10 (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 663:

TTGTAATTGG AACGTACGAA CTTTCTAGG TAAGAAACGT CGAATCTCGT CCTCATTATA 60
ACCAACTTGT AGTCGTTTAT TATCTAAAAAT AATTGGACGA CGTAATAAGC CAGGATTATC 120
20 TTGAATGATT GAATATAAGT CTTGTAATGG TAGTGAATCA ATATCAACAT TTAATTTTTG
TGATGTTTTA GAACGTGTAG AAATGATTTC ATCAGTACCG TCTTCAGTCA TTTTAAATAT 240
TTGCTTAATT TCATCAATTG TTAATGTTC AGAAAAAATA TTACGCTCCG TATACGGAAT 300
25 GTCCATGTTC tTGkTAACCA TGCTTTCGCT TTTACGGcAA GATGTGcAaC TTGGtGaAGT 360
aATAATGtT ACCATACATC TCACCTCCTC ATTTGAATGA ATAAAAATCA TTGCTTAAAA 420
TTTAGTTATA GATCAAGAAA AAACATTTTT TTCTAAAATT CTTAATCGTT ACTATTATT 480
30 ATAACATCTC AACATTAAAA TTAATGAGA AAAACCTAAT TTTTCAGATA AGTTTCTACA 540
CTTATAAAAA AGATTATTAA TCCTTTGTGT AGTAGTAAGT TATACGTATA TTCTAACACA 600
TCTTACATT TTAAGAAATA CTGTTATAAT GATAATTATT AAAATATTAC TAAGAAAGTA 660
35 GGCATTAAAA TGGAGACATT ATTTTCAGGC ATCCAACCTA GTGGAATTCC TACTATTGGA 720
AATTATATTG GCGCACTAAA ACAATTTGTT GATGTGCAAA ATGACTATGA TTGTTATTTT 780
40 TGTATCGTAG ATCAACATGC AATTACAATG CCACAAGATC GTTTAAAAAT ACGTAACAG 840
ACCAGACAAT TAGCAGCGAT TTATTTAGCT TCTGGTATAG ATCCAGACAA AGCAACATTG 900
TTCATACAAT CTGAAGTCcC TGCACACGTA CAAGCAGGAT GGATGTTAAC TACGATTGCT 960
45 TCTGTTGGAG AATTAGAGCG TATGACGCAA TACAAAGATA AAGCTCAGAA AGCAGTTGAA 1020
GGTATACCTG CTGGTCTATT AACATATCCA CCTTTAATGG CAGCTGATAT TGTTCTTTAC 1080
AATACTAATA TCGTTCAGT TGGAGATGAC CAAAAGCAGC ATATCGAATT GACTCGTAAC 1140
50 CTTGTAGATA GATTTAATAG TCGCTATAAT GATGTGCTTG TGAACCTGAA ATTCGTATGC 1200

(2) INFORMATION FOR SEQ ID NO: 664:

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(A) LENGTH: 787 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 664:

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10 TGTACCTTTT GCTTTAATAA ATAGTGTTC TTTATCATAA TTAGGTTTCAG TTAAGAAATT      60
   AAATTGTAAG CTTTGAGTAA TATTTTITTTG ACTATCACIT GTTGAGCTG TACGTGTATA      120
   CATTTTAGTA TCACCATCAA GATTCTTCTC AGAAACITGT TTGATTTTCAG AATTAATCTT      180
15 TGCAAAATGAA GTAGCTGGTA ATACAGTGAA AGTAGTCGAT AGTGCTAAG wACAAATTGT      240
   GATAITTTTA CATAGTTGTT TAATCATTAG TAATCCGCCC TTCAATATT ATCCTTCTTT      300
   ATAAGGTTTA TTGTCATCAG AATATTTATC AACGACTTTA ACTGTTTTAT TTTTCCAATC      360
20 AACTTCATAA GTGACAATTA ATCTTTGACC ATCTTTATTT TtctCTAAAA TTGGAGGTGC      420
   ATAATGTATy CCAGGCTCTG TTTTCAAAT ATCTTGATT TTGTTGTATG TTACTTCAAA      480
25 TTGCGTTTTT TCATTGACT TTTTATTAGA TAAATAAGTT AAAAATCTG GATTAAAGCC      540
   ACTTCTTACT AATGCTGGGT ATCTATATTT TGAAGCAAAG CTTAGTTCaG GGTTTTCTAC      600
   AGTAGCAATT CTGTAATTTT TATAGAATAA TAATTCATCA TTCTATTTT TCATCTCTCC      660
30 ACCATACTTC AAGTCATTGC CAATAACTGA CCAGTGTACA TGcCCAGTTh ATTTATTTTT      720
   ACGCTGGCA ATTGTGTCAT AATTGTGTCG ATCATCAACT AATCGTTTTG GAAGTAGCTA      780
   TTTGCTG                                     787

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(2) INFORMATION FOR SEQ ID NO: 665:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 533 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 665:

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45 TTATCTGTCA TTAACCACTG GTACATGTGA ACCCGGCnTh AATCAATATA TATATTTAAA      60
   AGCAAAGGCG CGCATGTGCG CTTTtTTnTA tTTTGATAT CTGTATCAAA ATCGATTTGA      120
50 TTAAAAATCCG CTTTATTTTA TCATCTATTC AAATGATTTT AGTGCGCTTA TTTTACTATG      180
   GCATTATTGC CTAACCTGTT TGAGATATAT TAATATTGTA TGATTCGTAT TCAAAGTTTT      240
   CATTTAACAT GTATTTAGTA TCATGATAGC TGCTTCATTG ATGATATACT ACCTACTTTT      300
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CAGAGGCAAT ATTGAACAAT TCTTCATCAT GACTATTTTC CATCACATAA CTATGCTTAG 420
 CGAAGCGTAA CATATCTTTA TCATTATTCG CATCTCCGAA GGCCATGAGC TCTGAAGGAG 480
 5 ACATTTCCCA TTTATCTAAC AATCGTTTAA ATGCTGnCC TTTAGTCATG TTT 533

(2) INFORMATION FOR SEQ ID NO: 666:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 666:

GACTTCTCTT GCACTAAAAA TTGCTCAAAAT TGTCGCTGT CATAACCAGG CGGTGTTTCC 60
 20 AACCATACAT ATATGCCACC TTTAGCATGA ACAATGGCA AATCAGCTTT TGCAAGCATG 120
 GCTTCGAATC GGTACAGACG TGTTTAAAT ACATTGCTTT GTTCTTCTAA AAAATCATCA 180
 25 TAATGGAATC AAAGCATATA TTGCGGTGTC CTGTGAAATG CACCAAAACAT CCCAGCATTT 240
 GTGTGCGTTT GGTACTTTTT CAAAGCTTGA AATCATATCT TTATTACCAA CTGCCAAAAC 300
 CGACTCTGAA AACCTGGACA TGTTGATGAA CCTTThAGAC AAGGGAAGAA ATTTGCAATC 360
 30 GCAACATCTT TGCCCATTTT nCCGAAGCAA GTGnGACTAG 400

(2) INFORMATION FOR SEQ ID NO: 667:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 412 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 667:

TCTCCAATGC TACTCAAAT AAAAAGGTTT TAAATATTGT TAATTCTGAT CCAGAGCGAA 60
 45 AGATTGTTAT CGTTTCTGCT CCAGGTAATA GACATGATAA TGATATTAAA ACAACTGATT 120
 TGTTAATCAG ATTATATGAA AAGGTCATTA ATCATCTTGA TTATCATGAT AAAAAAGAG 180
 AAATTATTCA GCGTTATGAT GATAATTGTA AAGAATTGCA AATGGATGAA AGTATTTTAC 240
 50 GGACGATAGA TGTGACTTTG GAACATTATA TAAATCAATT AAAAAATGAA CCAAGAGAC 300
 TATTAGATGC ATTACTTTCT TGTGGTGAAG ATTTTAATGC GCaATGAtA GCyTTATATA 360
 ATAATAGTCA gGtACCAAC AAmATwTATA TCCcCGAAGG AAGCGGGTAT TT 412

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 668:

TTACTCGTTA	AAGATATTGT	AAAAGATGAA	GTGACAGAAT	ATGACATTCA	TCAAAATGTTA	60
CCGCATCCGA	TTAATATGGT	AAGGTTAGA	CTTTTTGGTG	TGAAATTAAG	AGAGATTATA	120
GCTAAAAGTA	ATAACAAGA	NTATATGTAT	GAACATGCAC	AAGGTTGGG	TTTCAGAGGG	180
AATATATTGT	GAGGATATAT	TCCTTATAAT	TTAGGTATCA	TTCAATCTAC	AGGGCGTTAC	240
TATCTGAATG	GAGAAGAAAT	CGAGGACGAC	AAGGAATATG	TACTAGGTAC	GATAGATATG	300
TATACGTTGC	GTCTATTTC	CCAACATTGA	AGGATTACCA	AAGAGTATT	AATGCCAGAG	360
TTTTTCAGAG	GTATATTAA	NGAAAAATTAT	TGGCTATTTA			400

(2) INFORMATION FOR SEQ ID NO: 669:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1236 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 669:

TGTCGATAT	TTTTAAATT	ATCTTTTAA	TACAACAAC	GTTCCTGTA	TGATTAACT	60
GTTTTATGAC	TAATGCCATT	GAATATTCT	AGCGTTTAT	TTAACTTATC	GATAATCGCA	120
TGTAATCCT	TCAAAATGTC	TTTGTTC	AAAGTAAATA	CATTATGGAA	GCGATGAATA	180
TCATCATCAT	AAACATCAGA	ATCATTGATA	ATCGTAAATA	TCGTTGAGAA	CAATTGCTCA	240
TTTAACTCAT	GAATCTCATT	CATACTAGCC	TTCAAGCCAA	AAATATCAAT	TGGTGCAATA	300
TCTAATTTTT	CCAAAATTGG	CTGCTTTCC	AGTTGATCAA	TTGCCTTTAA	CAATTTTCA	360
TTTTCGTTTT	TACCAATCAA	ACCAAGCTGA	TATTTAATAT	CAGCATAACT	CAACTCATTT	420
GTCACCTGAT	TTAAGGCATA	GTCTGGTAAG	CGATGTGCTT	CATCCACTAT	ACAATCATCA	480
AACAATTGAT	ATATTGAATT	TTCAACATCA	GAATGAATTA	AATGTGCATG	ATTGTGAATA	540
CCAATTTGaA	TGTTCTGTGC	ATTTCGCTTA	ATAAAAATTAT	aATAATGAAC	ATCGTGACGT	600
GCGGTACAT	ATGTTTCAAT	TTCTGGTcA	AAATACATCT	TTTGACCACC	TTTTAAATT	660

ATATTCACcT CGTAATTACT TGTGTCATCT TTTAAAAATT GACTAATAAG CCCCAATGAA 780
 ATGTAATCaC TtTACTTTTT AATCAATAGT GCATTAAATT TAAAATTCAA CGCTTCATTc 840
 5 ATTGCTGGAA TATCTTTTTT TAACAATTGA CTTTGcAGTA ATTTAGTATT GGTAGAAAATC 900
 ATGACATGCT TCCcAGTTTC AATATTATAC ATCAAGGCCG CAAGTAAATA TGCTAATGAT 960
 10 TTACCACCTG CTAGTGATGC TTCAATCATT GCTTTTTTCAC TATGCATGAG CTGATCTAAT 1020
 ATAGTTTCCG CTAAATATAA TTGTTGCGGT CGATATGTTA AGCCAAGTTG ATCTACAGCT 1080
 TTGCTATATA AAGACTTCAA GCTGCCATTA TAATTGTTG TCGGCTTTTT AAAATCAACT 1140
 15 TGCTTACGAT AGATAATCTG TTCGAACTTT TCGTACGATT TATCCAATGG CTTTGcATCA 1200
 TATTGCCTAA CCATCTCAAA GAAAATATCA TACAAA 1236

(2) INFORMATION FOR SEQ ID NO: 670:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1819 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 25 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 670:

30 ACAsAATTAT TGACCAATAT GACTCGTGGa CTGATATGTT TAAAGCACTa CTGCATGAAA 60
 CATTTTAAAGC ATATGGCGTT CTATTTATAG ATGCGCAGTT TGAGCCGTTA AGAAAAATGG 120
 AAGCGCCTAT GTTTAAAAAG ATTTTGAAAA AACATCAGTT GCTTGATGAT GCTTTTATAG 180
 35 CAACACAACA ACGTACTCAA AATCAAGGCT TGAATGCGAT GATACAAACA GATACAAATG 240
 TTCATTATAT CTTACATGAT GAAAATATGC GTCAATTAGT tTCGTATGAT GGTAAAGCaYt 300
 TTAmATTAAA TAAACAGAT AAGACATATA TAAAGGAAGA AATTATAAAT ATTGCGGAAA 360
 40 ATCAACcKGA ATTATTTTCT aATAATGTAG TGACAAGACC ATTAATGghA GAATGGTTAT 420
 TTGAACACGG TGGcATTTGT TGGAGGACCG AGTGAAATTA AGTaCTGGGC TGAActAAAA 480
 45 GATGTATTTG AACTATTtGA TGTGAAATG CcEtCGTGA TGCCAAGGCT TAGAATTACT 540
 TATTTTAAATG ACGGTATAGA AAAATTACTT TCGAAATACA ATATTCCATT AGAAAAAGTG 600
 TTAGTCGATG GTGTtGAAGG AGAAAGAAGT AAGTTTATTA GAGAACAAGC ATCACATCAA 660
 50 TTTATTGAAA AGGTAGAAGG TATGATTGAA CAACAGCGTC GTCTAAACAA AGACTTATTA 720
 GATGAAGTGG CGGGAATCA AAATAATATT AACCTTGtGA ATAAAAATAA TGAAATTcAT 780
 ATACAACAGT ATGATTATTT GTTAAAAcGT TATCTTTTAA ACATTGAAAG AGrAAACGC 840

5 GAAAGAATAT GGAATCCACT TCAAATTTTG AATGATTTTG GGACAGATGT GTTCAAGCCC 960
 TCCACCTATC CACCACCTTC TTACACTTTT GATCATATTA TTATAAAACC TTAATATACC 1020
 AAGGGTTTAG CCGGATTTAT CTTAATGATA AATCGGGCAT TTTTGTGTTT TTTAAAATAA 1080
 ATTTACAAA TTTTGTATAA ATAGTGGTGG ATAGTGGGGA GATGTGGTAA ATTATATATA 1140
 10 AGGTGAGGTG ATAAAAAATG TTCATGGGAG ATACAGATCA TCAATTAGAT ACAAAGGAC 1200
 GTATGATTAT ACCGTCCAAG TTTCGTTATG ACTTAAATGA GCGTTTATAT ATCACAAGAG 1260
 GCCTTGATAA ATGTTTATTC GGTACACTC TAGACGAATG GCAACAGATT GAAGAGAAAA 1320
 15 TGAACACCTT ACCTATGACA AAAAAAGACG CACGTAAGTT TATGCGTATG TTCTTCTCTG 1380
 GTGCTGTTGA AGTAGAACTT GATAAGCAAG GCGGTATTAA CATCCCTCAA AACTTGAGGA 1440
 AATACGCTAA TTTAACTAAA GAATGTACAG TAATCGGTGT TTCAAATCGT ATTGAGATT 1500
 20 GGGATAGAGA AACTTGGAAT GATTTCATG AAGAACTGA AGAAAGTTTC GAAGATATTG 1560
 CTGAAGATTT AATAGATTTT GATTTTTAAA ATGGAGGAAT TGAAGTGTTT CATCATATCA 1620
 25 GCGTTATGTT AAACGAAACC ATTGATTATT TAAATGTAAA AGAAATGTT GTGTACATTG 1680
 ACTGTACGCT AGGTGGAGCG GGACAGGCCC TTTATTTACT AAATCAATTA AATGACGACG 1740
 GAAGATTAAAT AGCAATCGAT CAAGACCAAA CTGCAATTGA TAATGCTAAA nGGGTATTAA 1800
 30 AGGATCATTT GCATAAANG 1819

(2) INFORMATION FOR SEQ ID NO: 671:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 609 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 671:
 ACCAATTATT GGACAGGAAT TAGCAAAAAA TGCAATGCTT GCATTAACTCT ATGCATCGAT 60
 45 AGGTATCATC ATCTATGTAT CATTACGATT TGAATGGCGC ATGGGCTCTT CATCTGTATT 120
 GGCATTATTA CATGATGTAT TCATTATAGT AGCGATTTTC AGTTTATTTA GAATTGAAGT 180
 AGATTAAACA TTTATCGCCG CTGTAATTAAC AATTGTCGGT TATTCAATTA ATGATACAA 240
 50 CGTAACGTTT GACCGGTGAC GTGAAAACTT ACAAAGGTT AAAGTGATTA CGACAACAGA 300
 ACAATTGAT GATATCGTTA ATAGATCAAT TAGACAGACA ATGACAGGTT CAATTATAC 360
 55 AGTATTAACA GTTATTGTAG TAGTAGTTGC TATACTATTC TTCGGTGCTC CTACGATATT 420

TGCCGTTCCG CTATGSGGAA TAATGAAAAA ACGTCAGTTG AAAAAATCGC CGAAACACAA 540
 ATTAGTGTGA TATAAAGAAA AGAAATCGAA CGATGAAAAG ATTTAGTATT AAAATGaATT 600
 5 AAGCGGTAT 609

(2) INFORMATION FOR SEQ ID NO: 672:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2222 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 672:

CTTAAACAG CAATTTGAAC GTTTACAAAA TGAACAAATC TTGTTTATG TTTGTCATGG 60
 20 TAATCAGCAT CCTTTATCAT CAAAGATTTC ATCAAACTGG CCAGATAATG TtntTGTATT 120
 TTCAATAAA GTTGAGACGT ATGAAGCAAT TACTAAATCT GGTGAAACAA TTTATATTCA 180
 CGGATTAGT TATGAAAATA GAGCAAGTTA TGAGAACCAAG ATTGATGAAT ATCCATCAAG 240
 25 TCAAGGCCAA AAAGGCATAC ATATTGTTGT CTGTCATGGT ACGTATAGTA AATCTTCAGT 300
 TAACGAAAGA TATACCGAGT TCATTTTAGA AGATTTAAAC AGTAAATTGT ATCAITATTG 360
 GGCTTTAGGT CATATACATG AACGTCAACA ATTAAGTGAT ATGCCTGTAA TTAACATTTC 420
 30 AGGTAATATT CAAGGTAGAC ATTTTAATGA GCAAGGTGAA aAAGGTTGCT TATTAAATCGm 480
 GGGTGACCAC TTAATAATTAA AGACTAAATT TTATCCTACA CAGTATATTA GATTGGAAGA 540
 35 AGCAACTATT GAAACGGATA AGACATCTAA GCAAGGTTTA TACGAGGTCA TTCAAAACTT 600
 TAAAGAACAA GTGAGAGAAG AAGGAAAAGC CTTTTATCGT TTAACGCTTG TTATTAAATG 660
 TGAGACATTA ATTTTACCTC AAGATTATT ACAAAGTGAA GAAATGATTA CAGATTATGA 720
 40 AGAAAACGAA AATCAAATTG TATATATTGA TGAGTTAAAA ATACAATATG CACAAAATGA 780
 TGAGTCACCT TTAGTTAATG AATTTTCAGC GGAATTATTA GTCGATCAAA CTGTTTTTGA 840
 45 TAAAGCGATG TCAGATTIAT ATTTAAATCC AAGGGCATCT AAGTTCCTAG ACGATTATGG 900
 AACATTGCAC CATACAGCAT TAGTTAATCG TGCTGAAGAA ATATTAAAG CTGAAATGAG 960
 AGGTGAACAA AATGATAATT AAATCACTTG AAATTATTAG TTACGGTCAA TTTGTTCAaC 1020
 50 GTAAATTGgA ATTTAATAAA AACyTcaCTG AAR1TTTGG TGAAAATGAA GCGGGTAAAT 1080
 CGACGATTCA AGCATtCATC CATTGATAT TATTGGGATT TCCAACATAA AAGTCTAAAG 1140
 AGCCAAGACT AGAACCCAGT CTAGGTAAAC AATACGGTGG TAAATTAGTA CTTATTCTTG 1200

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TATAATTACC TAATGTTGCT GTGCGTGATG ATGCTTGSTT ACAAAGAAA CTTAATTATA 1320
 TTTCTAAAAA GACATATCAA GGTATCTTTT CATTGTATGT ACTAGGGCTT CAAGACATTC 1380
 5 ATAGAAATCT AAATGAAAAA CAATTGCAAG ATTATTTATT ACAAGcmGGG GCTTTAGGAT 1440
 CAACTGAaTT CACGTCAATG CGCGAAGTGA TTAATCGTAA AAaAGATGAA TTATATAAAA 1500
 aATCAGGTAA AAATCCGATC ATTAATCAAC AAATTGAGCA ATTAATAACAA CTAGAAAAGTC 1560
 10 AAATTCGTGA AGAAGAAGCA AAGCTAGAAA CATATCATCG CTTAGTAGAT GATCGAGATA 1620
 AATCATCACG TCGATTAGAG AATTAAAGC ATAATTTAAA TCAATTATCA AAAATGCATG 1680
 15 AAGAAAAACA AAAAGAGGTT GCTTTACATG ATCATTCAAC AGAATGGAAG TCTCTAGAAC 1740
 AACAGTTAAA TATTGAGCCA ATCACAATCC CAGAAAAAGG TGTGGATCGT TACGAAAAAG 1800
 CACGAGCGCA TAAGCAATCG TTAGwAAGAG ATATTGGTTT AAGAAATGAG CGTTTAGCTC 1860
 20 AACTTAAAGA AGAAGCGACT CAATTAGAGC CAGTTAAACA ATCTGATATT GAGCGCTTCA 1920
 TTAGTTTGAA TCAACAAGAA AATGAAATTA AAAATAAAGA ATTTGAACCT ACTGCAATCG 1980
 AAAAGGATAT TGCGAATAAA CAACGTGATA AAGATGAATT GCAATCAAAAT ATTGGTTGGT 2040
 25 CTGAAACGCA TCATGACGTA GATAGTTCAG AGGCAATGAA AAGTTATGTC AGTGAGCAAA 2100
 TCAAGAATAA ACAAGAACAA GCTGCATACA TTAACAATTT AGAACGTAGT TTAGAAGAAA 2160
 30 ATAAATCGA AGATATGCG GTTCATAGCG AACTAGATTC TGTGAAGAA AAATAGTTCC 2220
 TG

(2) INFORMATION FOR SEQ ID NO: 673:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 406 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 673:

45 TTGCAGGTAT CATTITTTTA ATGCCATATG GATTATGTTT TCTACCGTTT TATAAGCAAA 60
 AAAAGAAAAA ACAGACATTT AAAAAATACA TGGTTTACAC TACGATTGTT TTGTCATTTT 120
 GTCTAGGCTT ATCTCTAGTT TTGGTTTACA CTACGAAAAA TTATATGGAC GAAGGTGGCG 180
 50 TAAGATACTA TTACGGTAAT TTTGTAATGA AACAAGCGGG CGGTTATGCT TATTTAGCTT 240
 TAGCGGTACT TTCAACGTTG TTAATTGTTG CGAAAAAAGC TACAAATAAA AATAAGAAAA 300
 TCGAAACCGT CGACAATACA AATATAACGG AAAGATAAAT AAGGAGGTGC TCATTTCAGGA 360

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(2) INFORMATION FOR SEQ ID NO: 674:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 927 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 674:

CCACTTTGTG	GATTTTCTTT	ATATTCTCCA	CGCTTGTACT	ACAACCTCTT	TGTTTCTGT	60
TTCATCACCG	ACTGCCGCAT	TGTTAGCAC	ATGTAATAAC	TCTTTTGGCG	TTAATACATT	120
CTCATCTATA	ATCTTATCTT	TTTGTCTTGT	TATATATTGC	TTGATGTGCG	GCTTTTTCAA	180
TAACTTACAC	GCTGTCACAT	GTGCGCTATT	TGCGTTATAT	CCTGyTTTTA	TGGCACTTGT	240
TGTTACATTC	AGTGTCTTAA	TATACTCATT	CACAAAACGT	GCTTGCTTTG	CAGTTAACTC	300
ACTCATTTTA	TCACCCCCAC	AATTTTATCT	AATATGGTTT	CATACCATAA	TATTACAGAT	360
TGTTCTGAAC	AATCTAAGGC	ACTACTAATA	TCTTGATAAC	TAAGTCCTTG	TATAAGGAG	420
TCAAAAATAT	AAAACCTTTT	ATCGGTCGCT	AATCTGTCAA	CAATCATTTT	TATGTGATTC	480
TTTATAATAT	GATCATTGAC	ATTATCGTCT	GTATCAATT	CGTCAGAATC	TTCATCACTT	540
ATTAATAAGA	AATCATCAGT	ATTTATTTC	TCATCGCCCC	GTTAACTIAG	TTTGAAGTCT	600
TTAGCACACT	TGCATATACC	GGCTGTCGTG	CTGGCKAGAT	ACTAGCATTG	AAGTGTCTGT	660
ATATTGATTT	TGAAAAACAAC	ACGATTAGTA	TTACTAAAAC	ATATTACAAT	CCAAATAATA	720
ACAAGAAGAA	ATATCAGATA	CTTCCCCCTA	AAACTGAAAG	TTCTATCGGT	AAGATTTCGG	780
TTGACCCAAA	TGTAATAAAG	GtGtTGGGtG	ATTATAAGAT	AAAGTTTCAA	AATAATTGGA	840
AAAACGAATT	ATATAATGAT	AACCATTGTA	ATGAAAAAAC	TATCAATGTG	GATACAAACC	900
ATTATGTCAC	GTACCAGCAT	ACTCAA				927

(2) INFORMATION FOR SEQ ID NO: 675:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1100 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 675:

GATGTTAAaA	TAAGTACATC	ATTTTGACTC	CCAAATATTG	GCTTTAGACC	TTGAAATGCT	60
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CTCATAATGG CATCAGGTAC cAGGGGTGG GaCCAGGTGT TAATAACAAC GGTGATGAT 180
 AATACATTTA TATGCCTCTC ATAAATAAGA TTCTACTATT TTAGCAAAT TTCTGAAAAT 240
 5 TTAAGAGCCT AAAAgtGAT AACGTATAT TGTCGAACAA ACGTTATCAC TTAACGATTT 300
 TATTTGGCCT GAATGATGGG ATAGATTTTT ATGTCACAT TATTTCTTAC AGCATTTGAA 360
 ATCATGCAAT TATTATCTGC AATTGTTATC AATTTTGGTA ATCGCTTTTC TAATTGTGCT 420
 10 ATTTGATCAC TTGGAATTGG AATTGAGGA TGGTGCACAA TTTTGGACAT ACTGAATTTT 480
 CCGTTATTTA AACAGCTGT TCCAATCGAT TGTGTGtCAA TTGAATATC TGTGAACCTT 540
 15 GCACGTTCAA GAGTAGCTGC TAATGAGATG ATATAACATG ATGAAGCGGC TGATACTAAC 600
 ATTTCATCGG GATTGTTC TATACCAACA CCACCTAAAG AAGCAGGTAT AGAAATATTC 660
 TCTGAAAGTA TGTCGCCTTG AACGTTCCG ACATTGTTC GACCACCTG CCAAGAGTT 720
 20 TGGACTTTAA AGTCATGTTG ATGCAATTGC TTTAACCTCC AATATAATTG TGATAGTTTA 780
 ATTTTAGAAT AGTTTATCAA AGTTTAACAG AAAGGTGACT TATCAATGAC TCTGAATAAA 840
 CTGAAAGATG AATTACAAAT TGTTCGCAC CGTGGATTGC CGAGTGATTT TCTGAAAAAT 900
 25 ACAATGGTCG GTTATCGAGA GGTAAATGGG CTCAATGTTG CTATGTTAGA AATAGATGTT 960
 CATTTGACCA AAGACCAACA TTTTGTGTG ATACATGaTG AAACAATTGa TAGAACATCG 1020
 GaTGGTArGG GGCGTAWTGC TgaTTACACA TTATCGCAAT TAAATCATT TGATTTTGGT 1080
 30 AGTTATAAAG ATGTTGCTTT 1100

(2) INFORMATION FOR SEQ ID NO: 676:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 460 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 676:

45 AATTAATTCA TATGGAATA GTTGAACATA CTGCGCTGTA TAAGCTTCAA CAGTTTGATG 60
 AATTAACGAT TGATCTTCAA TATATCCGTA GAACAAATCT TCAGTACAAA CTACTTTACC 120
 TTTATCAGGT TTAATTGCAC CTGCCAACAA TTGACCTACC AACGCTTTGG AAGATTCAAG 180
 50 TTCACCAATT ATACCTAAATG CTTCCTCTG ATAAATATGT AAATAATAT TGTTTAAATC 240
 GATATCTTCA GCATCATATC CAAAGGTAA ATACCATTC TTATTCTGTT TATTCCTATA 300
 GTAGTGTGTT ACTTTTAGTA ACTTTAAAC AATTGAACCT CCCATCTATT TTCATCCTTC 360

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CCCCACGCaa AAATACCTTT TAACTCTnCT ACTTTAAAAA

460

(2) INFORMATION FOR SEQ ID NO: 677:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1451 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 677:

15	GTCAAGTTTT CGGCTAGATT TTAACGCTC ATCACTATGT AGAATGAAAC TTTCGAAAAA	60
	CTGTAAATCA TCATAACCTT TTACATAAAC ATAACCTTCG CCACCAATTG CTGTGAATTAA	120
	ACATTGGGGC GCCATTGAA TTCTAAAGA TTGTTTTTCT AGCCTATTAA AGATACCTAT	180
20	TAGTTGTGTG TTAAAGATT TTGACATCTT TATCCTCCAA TCTACTTATA AAATATTGTA	240
	ATTAATGACT ACATATTATG CAACGGCTTA AATTGTATAA AAATGTATAC GTTTGCATT	300
	AGTATAACTA TCGCATTTTT CAAAAATAC ACATTTAATC TGCAGTATTT CAATGCATTG	360
25	ACGCTATTTT TTGATATAA TTACTTTGAA AAATACGTGC GTAAGCACTC AAGGAGGAAC	420
	TTTCATGCCT TTAGTTTCAA TGAAGAAAT GTTAATTGAT GCAGAAAGAA ATGGTTATGC	480
	GGTAGGTCAA TACAATATTA ATAACTAGA ATTCACCTCA GCAATTTTAG AAGCGTCACA	540
30	AGAAGAAAAT GCACCTGTAA TTTTAGGTGT TTCTGAAGGT GCTGCTCGTT ACATGAGCGG	600
	TTTCTACACA ATTGTTAAAA TGGTTGAAGG GTTAATGCAT GACTTAAACA TCACATTCC	660
35	TGTAGCAATC CATTTAGACC ATGGTTCAAG CTTTGAAAAA TGTAAGAAG CTATCGATGC	720
	TGGTTTACA TCAGTAATGA TCGATGCTTC ACACAGCCCA TTCGAAGAAA ACGTAGCAAC	780
	AACTAAAAAA GTTGTTGAAT ACGCTCATGA AAAAGGTGTT TCTGTAGAAG CTGAATTAGG	840
40	TACTGTTGGT GGACAAGAAG ATGATGTTGT AGCAGACGGC ATCATTATAT CTGATCCTAA	900
	AGAATGTCAA GAACTAGTTG AAAAAACTGG TATTGATGCA TTAGCGCCAC ATTAGGTTCA	960
	GTTCATGTGC CATACAAAGG TGAACCAAAA TTAGGATTTA AAGAAATGGA AGAAATCGGT	1020
45	TTATCTACAG GTTTACCATT AGTATTACAC GGTGTACTGT GTATCCCGAC TAAAGATATC	1080
	CAAAAAGCAA TTCCATTGGT TACAGCTAAA ATTAACGTAA ACACGTAAAA CCAAAATCGCT	1140
	TCAGCAAAA CAGTTCGTGA CGTTTAAAT AACGACAAAG AAGTTTACGA TCCTCGTAAA	1200
50	TCTTAGGAC CTGACGTGA AGCCATCAA GAAAGmGTTA AAGGAAAAAT TAAAGAGTTC	1260
	GGTACTTCTA ACCGCGCTAA ATAATTAATA TTTAGTCTTT AAGTTATTAA TAACGTAGGG	1320

AATAAATAAA ACAGTTTGTAT TTTAAATGA AAGCGTAAAA ATGGTAAAAAT ATATCAAAAT 1440
 TGATTGTGAT A 1451

(2) INFORMATION FOR SEQ ID NO: 678:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 668 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 678:

hGTATTGAAG CGGTTAAACA AACACCTAAT GCAACTGACG AAGAAAAGCA GGCTGCTGTT 60
 AATCAAATCA ATCAACTTAA AGATCAAGCA ATTAATCAAA TTAATCAAAA CCAACAAAT 120
 GATCAGGTAG ACACAACCTAC AAATCAAGCG GTAAATGCTA TAGATAATGT TGAAGCTGAA 180
 GTAGTAATTA AAACAAAGGC AATTGCAGAT ATTGAAAAG CTGTTAAAGA AAAGCAACAG 240
 CAAATTGATA ATAGTCTTGA TTCAACAGAT AATGAGAAAG AAGTTGCTTC ACAAGCATTA 300
 GCTAAAGAAA AAGAAAAGC ACTTGACGCT ATTGACCAAG CTCAAACGAA TAGTCAGGTG 360
 AATCAAGCAG CAACAAATGG TGTATCAGCG ATTAAAATTA TTCAACCTGA AACAAAAGTT 420
 AAACCAGCTG CACGTGAAAA AATCAATCAA AAAGCGAATG AATTACGTGC TAAGATTAAT 480
 CAGGATAAAG AAGCAACAGC AGAAGAAAGA CAAGTAGCAC TAGATAAAAT CAATGAATTT 540
 GTAAATCAAG CCATGACAGA TATTACGAAT AATAGAACA ATCAACAAGT TGATGATACA 600
 ACAGTCAGCG CTgATAGCtT GCTTTAGTGA CGCCTGACCA TATTGTTAGA GCGCTGCTAG 660
 AGATGCGT 668

(2) INFORMATION FOR SEQ ID NO: 679:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1906 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 679:

GATCCAAATT TAAAGGAAA AATAGCCTTT AACGAATTGA CGAAACAAA TGAATGTTA 60
 GGGAAAGTCG CATGAATAC TAATTTTAAAG ACACGTCAAT GGCAAGACGG TGATGATAGC 120
 AGTTTAAGAA GTTATATCGA AAAGATTAT GACATACACC ATTCAGGTAA AACAAAAGAT 180

	ATCGTGGGAT	GGACATAAAC	GCCTTGAAAA	GTTATTATAT	AAATACTTAG	GTGTGAAGA	300
	CcTGaAGTGA	ATAGAACAAC	TACCAAAAAA	GCATTGACTG	CTGGAATCGC	TAGAGTAATG	360
5	GAGCCTGGAT	GTAATTTGA	CTATATGCTT	ACACTTTATG	GTCTCAAGG	TGTAGGTAAA	420
	TCTGCTTTGC	TAAAAAAATT	AGGTGGTGCA	TGGTTTCTG	ACAGTTTAGT	TTCTGTACAA	480
	GGTAAGAAG	CTTATGAGGC	CTTACAAGGC	GTTTGGCTAA	TGGAAATGCG	AGAACCTTGA	540
10	GCTACAAGAA	AAGCTGAAGT	TGAAGCTATT	AAGCAATTCA	TATCTAAACA	AGTTGACCGA	600
	TTTCGTGTTG	CTTATGGGCA	TTATATTGAA	GATTTTCCAA	GGCAATGTAT	TTTCATTGGT	660
	ACAACTAATA	AAGTTGATTT	CTTAAGAGAT	GAAAGTGGTG	GAAGACGTTT	TTGGCCAATG	720
15	ACTGTAAATC	CAGAGAGAGT	TGAAGTGAAC	TGGTCTAAAC	TAACCAAGA	TGAGATTGAC	780
	CAAAATTTGGG	CAGAAGCTAA	ACACTATTAT	GAACAAGGAG	AAGATTATT	CCTTAACCTT	840
	GAAGTAGAAG	AAGAAATGCG	TTCAATACAA	AGCAACACATA	CTGAGGAATC	TCCATATACA	900
20	GGCATIATTG	ATGAATATCT	TAAACACACm	ATTCTAGCA	ATTGGGATGA	CTTAAGTATC	960
	TTTGAACGAA	GACGATTTTA	TCAAGGTGAT	GTTGATATGT	TACCAACAGG	AAATGTaGAT	1020
25	TACGTTAAAA	GAAATAAAGT	CTGTGCGCTT	GAAGTGTG	TTGAATGTTT	TGGTAAAGAT	1080
	AAGGGAGATA	GTAGAGGATC	TATGGAATTT	AGAAAGATTT	CAACATCTT	AAGACAATTA	1140
	GACAAATGGT	CTGTATATGA	TGTAATAAAA	AGTGGGAAAA	TTGATTTTGG	AAAAGATTAT	1200
30	GGTGATACAGA	TAGCTTATGT	AAGAGATGAA	AGTTTAGAGG	ATTTAATATA	AGAAATATTG	1260
	AATAAATATG	CATTTTAGAG	TGTTGTATCA	GATGTTCAT	CATTTTTTGA	GTGATGCAAC	1320
	ACGGGAGTGT	AAAAAGTAAT	CGTAGGTGTT	GATCATTTT	TGGTGATGCA	ACATTGATGC	1380
35	AACAAATGAT	ACAACACCTC	TTTCCTTTCT	AGCTGTAGGG	TTCAACCTTG	TTTGTTCCTA	1440
	ATGTTGCTATC	AAATTCACCTA	TAAAGTTTAA	AAAGTAGTGT	TAGGGAGTAA	AGGGGTATAG	1500
40	GGGTAACCTC	CTAACAGCTA	TTTTTAAAG	TTTGGCAAGA	ATTGATACAA	CATCGGAACA	1560
	CAAAATATAAA	TTTTGTATAC	AAGGTGAATA	AATGAAAGAA	TCGACATTAG	AAAAATATTT	1620
	AGTGAAAGAG	ATAACAAAGC	TAAACGGTTT	ATGTTTAAAA	TGGGTCGCAC	CTGGAACAAAG	1680
45	AGGTGTGCCA	GATAGAATTA	TTATTATGCC	AGAAGGAAAA	ACATATTTTG	TAGAAATGAA	1740
	GCAAGAAAAA	GGAAAGTTGC	ATCCTTTTACA	AfAATATGTG	CATAGACAAT	TTGAAATATAG	1800
	AGATCATAAA	GTAATATGCT	TATGGAATTA	AGAACAAGTA	AAATCTTTTA	TCAGAWTGGT	1860
50	AGTGAACATT	TGGCGATTGA	CTTTCAAACC	ACATAGCTnt	CCAAAG		1906

(2) INFORMATION FOR SEQ ID NO: 680:

(A) LENGTH: 948 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 680:

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10 AATTATTGA ATAAATTAGC AATTAAAGAG TTGATTIGTC AGITTTAAGyA TTTGAGTGCA      60
   TTGAAAAAG ATGTCATGTA TTTAATGIGT GAACAATATA AGCCGAGAGA AATTGCTCAA      120
   TTGATCGATG TAAAGAGAA AGTGATTTAT AATGCCATAC AACGATGTA AAATAAAATA      180
15 AAACGTTATT TCAAAATGAT TTGAAAAGCG CCTTAGGACG TGAATTGAAT TATAACGTGT      240
   TACTTACTGA TGGTTTGACA TTTGTTATAA ATTTTATGTA TAGTATACTG GTATTATAAT      300
   GAATAAAGGT GAATTATTGT GAGAAAAATA CCTTTAAATT GTGAAGCTTG TGGCAATAGA      360
20 AATTATAATG TTCCTAAGCA AGAAGGCTCG GCAACAAGAT TAACCTTAA GAAATATTGT      420
   CCAAAATGTA ACGGCGCACAC AATTCTATAA GAATCGAAAT AAATACATTC GAAATAATAC      480
   TTTGATAATA TGTTCAAAGG ATTTGGAGGT TGAGCAGATG GCTAAAAAAG AAAGTTTCTT      540
25 TAAAGGCGTT AAGTCAGAA TGGAAAAAAG AAGTTGGCCG ACGAAGAAG AGCTATTTAA      600
   ATATACTGTA ATTGTAGTTT CTACTGTTAT ATTCTTCTTA GTCTTTTCTT ATGCGCTTAGA      660
30 TTTAGGAATT ACAGCATTGA AAAATTATT ATTGTTAGT AGSAGTGAAG ACATGCTGTA      720
   AGAAGTTGGC GCAAAGCtTG GTATGCAGTG CATACATATT CTGGATATGA AAATAAAGTT      780
   AAAAAGAATT TAGAAAAAAG AGTAGAATCT ATGATATGA CTGAACAAAT CTTTAGAGTA      840
35 GTCATACCGG AAGGAAGAAG GAAACCTCCA GTAAaAGnT GGCCAAGCCT AAAACCGCCT      900
   GTTAAAAAAA ACCATTCCCC TGGGnTnGG TTTTAAGTGG GAATTTAA      948

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(2) INFORMATION FOR SEQ ID NO: 681:

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 863 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 681:

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50 ACAaTAATA ACAAGCGCT TGCTAGTACC TCITAAAAAG ATGATGCTAG CAAGCGCTTk      60
   TCTATACTAT ATATTATTTT TCTAAAATT TAACACCCCT TTGAGTGCCT ACAATAACTT      120
   GATCTGCCAT ATCTAAGAAG TATCCTGTCT CAAACACACC TGTCAGATGA ATTAAATACT      180

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TATCAGTTAT AAATGCGACA TCTTCGTTA CACGACGTC TACTTTTATA TCAGCGTATG 300
 ATTCAAATTT ACGTAATATG TGATACCAGT TAAATTTATC CACCTCTACT GGTAACCTTAA 360
 5 ACGTCTCACC TAAGTATTGA ACTATTTTCG TTTCATCGAC AACCACAACA AAACGCGATG 420
 CCATTTTCATC TATAACTTTC TCTCTGAACA GCGCACCACC GCCACCTTTA ATTATATTTA 480
 AAGATGGATC TACTTCATCA GCACCATCAA TTGCTAAGTC GATATGATCA ACATCATTGA 540
 10 TTTCACATAT TTTAATACTT AATTCCTTTG CTAAAAATGC AATTTTATTA GAAGTGCATA 600
 CACCTGTAAT ATTGTAACCA CGTTCCTTAA TTAGTTCGCG CATTGAGGT AAGAGTAATT 660
 15 CCATTGTACT TCCTGTACCA ATTCCCAGCG TCATGTCAAC ATTGATTGGA CTTAAAAACAT 720
 CATTTAATGT CATTAACTTG AGTGCTTTGA CATCTTTCAT GAAGGTAGCC TCCCATATTT 780
 AtGTAATCTA TTCAATTCAT ATTTTACATG ACTCGTATAA ATTAACATAC CCTTATnGCT 840
 20 AACCATTGTG GTTAAACATA TCG 863

(2) INFORMATION FOR SEQ ID NO: 682:

(i) SEQUENCE CHARACTERISTICS:
 25 (A) LENGTH: 480 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 682:

TTCAATTTTG TTGTCAGCA ATTTTGGTCC GAATTTCAAT TCATCAGATG ATAGCTCTAT 60
 35 TAATTCGTGA GAATATTCTG CACAACAAT TTCATAAATA TGGCCTTTTT CTTCATTAT 120
 TATTTCATCA ATTATTTTCAT AATTCAAATG TTGTAATGTT TGCTTAAAT TTTCAGTTTG 180
 GATATTACTT TGTAATAATCA ACCTTGGATG TTGACTTAAC TTATCTTGCC CATCTTTTAA 240
 40 AATTTTAGCA ATAAGTGGTC CGCCCATACC ACAATTGTG aTATTATCGA TTACGTCTC 300
 AGGTGAATA ACACCTTAAG CATCCCCTAA ACGTACATCA ATTCTATCTA CTAATTGGTT 360
 TGCAGCTACA TTTTTCACAG CAGCTTGAAA AGGCGCTTGA ATAACCTTCT CAGCAATAcC 420
 45 GaTTGCATA AATGTTTTG AATTGCATAG ATTGGCAAT AAGCATGATC TGAGCCAATA 480

(2) INFORMATION FOR SEQ ID NO: 683:

(i) SEQUENCE CHARACTERISTICS:
 50 (A) LENGTH: 689 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 683:

CTGCAAAAAA TATTGGTATA ATAAGAGGGA ACAGTGTGAA CAAGTTAATA ACTTGTGGAT 60
 5 AACTGGAAAG TTGATAACAA TTTGGAGGAC CAAACGACAT GAAAATCACC ATTTTAGCTG 120
 TAGGGAAACT AAAAGAGAAA TATTGGAAGC AAGCCATAGC AGAATATGAA AAACGTTTAG 180
 GCCCATACAC CAAGATAGAC ATCATAGAAG TTCCAGACGA AAAAGCACCA GAAAATATGA 240
 10 GTGACAAAGA AATTGAGCAA GTAAAAGAAa AAGAAGGCCA ACGAATACTA GCCAAAATCa 300
 AACCACAATC CACAGTCATT ACATTAGAAA TACAAGGAAA GATGCTATCT TCCGAAGrTT 360
 15 gGCCCAAGAA TTGAACCAAC GCATGACCCA AGGCCAAAGC GACTTTGT TT TCGTCATTGG 420
 CGGATCAAAC GGCCTGCACA AGGACgTCTT ACAACGCaTa ActACGCACT ATCATTACGC 480
 AAAATGACAT TCCACATCA AATGATGCGG GTTGTTGTAA TTGAACAAGT GTACAGAGCA 540
 20 TTTAAGATTA TGCGAGGAGA GCGGTATCAT AAGTAAACT AAAAAATTCT GTATGAGGAG 600
 ATATAATTTT GGAGGGTGTt AAATGgkGGA CatTAATCC mCGTTCATTc mATATATAAG 660
 ATATATCACG GTAAATTGCGC ATATACTT 689

25 (2) INFORMATION FOR SEQ ID NO: 684:

(1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 858 base pairs
 (B) TYPE: nucleic acid
 30 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 684:

TTATTAAATT GGTATGTGTT CATTATACAT ATGACAAATA TGaATGTAAa CCGATAATTT 60
 AGATTTTTTG GAATAACCTG AAAATTCAAG TtaTAGCGTT GcTTATATTT TAAAGGTGG 120
 40 TGATAATGAG ACTTTTTGAA AAATAAAATT CAAAATACTT ATAGCATAAT CAATATGCAC 180
 ATATAATAAA TGIACtCTTT TAATGCGTTG ATAACtGTAT TTGTAAATTA GAGAAGGGGT 240
 GTTCACTATG CTGATGTGTT AAAAAATAAA ATAAAAAGGA CACCTCGATG CTATAAATAT 300
 45 TAGCATCGAG ACGCCCAAGTT AATGTCTATT AAATTGAATA TAGTCTCGGA CATGAATCAA 360
 TGCCCTAGGC CCGCAATGT TATATTGACA GTAGTTGACT GAATGAAAT GACTTTGTAG 420
 50 CTAGCTTTT TCAATCCTTG TCGGTGCAAC ACATAGAGAA ATTGAGATTCC TAATTTCTAC 480
 AAACAATACA AGTTGCGGAA TAAGTCCCAA TATAGAAGGT GACAGTAAGC CAACTTACAA 540
 TAATGTGCAa GTTGGTGGG CCTCAATACA GAGATTTCG AAAAGAAATT CTACATATTA 600

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GCCACCTTGT TTATTTAAAT CGATAACACG GTTTGCGATT GTATTGATAA ATTCAAAGTC 720
 ATATGAAGTA AAGATAATAG AACCTTTGAA TGATTTAAGT CCATCATTAA CAGCAGTAAT 780
 5 ACTTTCTAAG TCTAAGGGTT GTGGGTCATC AAGTAAAGA CGTTGCCCTG ATAACATCAT 840
 TTAGTAGCA CACGACTT 858

(2) INFORMATION FOR SEQ ID NO: 685:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1747 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 685:

20 TTATGATTTT CAGGnTGAA ATTGATGTTT GAAATCTACT GAAATGGGCC AGAACCTgAA 60
 ATGAACCTTT ACCAACAAAT TGCTCTTCAT CAATGAGGCC AAACGCACGG CTATCTTTAC 120
 TTAGTTCACG ATTATCTCCA AGCACTAAAT ATTACCTTT TGAATGACA TTTGATTTAG 180
 25 GATTGCGATT CGGTAAATCT TTAACCTGGA AAGTCCAGT AATGTAATCA CCTGTGTTAT 240
 GTTTTAAATG GTAGTTTAAA TATGTTTCAT CTGTTTTTTT ACCATTGACA TATAATGTAT 300
 CATTTTTGTA TTCTACTTTA TCACCAGGAA CACCGATGAC ACGTTTAACT TAGTCATCAT 360
 30 TTTTGTTCG ATGAAGACA ACTACATTAC CTTTTTCCAA ACCACCTGTT TTATATCCAA 420
 CAATGTTTAC AGCTACTGCG TCGCCATCTT TCAAGTTGG ATCCATTGAT TCACCTTTAA 480
 35 TTGTATATGG CGTAACAATA AATTACCTA CTATAAATAA AATGACAAA GCGACTGCAA 540
 TTGAAATAAT CCATTCCAAT ATTCTTTTT TCAATTTGA CACCTCTTTT TAAGATTGA 600
 ACTGAACAGT CCATTTTGAA AAAGGATAGT ATCGTAAAC AACATTACCA ATAATACCT 660
 40 TTTATCGAT TAAACCAAT TGCTTTGAAT CGTGCTTGtK ATTATCTTGA TCATTTAGCA 720
 CAACAAAAT GTTTGGCGGA ATAATATCAC CATCTAATTC TTTAAAAATT CGCAAACTAA 780
 AATCTTTAAT TTTTCTGTC TTGGCATAAG ATGCGTCAAC CGTCCGGTCA TCACGGTATA 840
 45 ATGTGCCCTG ACGAAACGCC ATTGATTGAC CAGGTTTGGC AATAATTGCA CTAGTATATA 900
 TCTCGTTACC ACGCTATAT GTAATGATAT CACCATTTAT CAATTGATTA AATGTAACCT 960
 50 TAATTTTAT TACAATAACA CGATCCCTT TGTTAAGGGT TGTTGACATA TCATTATTGG 1020
 GAATGACATG ACCAACTATT ACAAAAGTTT GTACGAACAG TACAATGATA ATAGCAAGTA 1080
 TCAATGAAAT CAAATATTTT ACACTTTTT TCACGATGTC ACTCTTTTTT CGATCCCAT 1140

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	ATCCCTCTTA AAGGATGCGT TAAAAITGTA GTAATTTCTT TACCTAAATA ACCTAAAATA	1260
	ATTGTTGAAA CTAACCTTGA TGATGCCAAA ACAATGAAAT AATATTTAGG TCTAATATGA	1320
5	GATAGACTCG CTACAAAATT TATTAATGTA TTTGGCGTAA AAGGAAAACA AAGTAAAATA	1380
	AACAATGGGA TTAATCCTTG GCGATCAATA AACTAATCA AGCGTTGAAC AGCAGTACGT	1440
	TGTTTAATTC GCTGCATCCT CTCAGTGTTT ACCAATCGTT TACAGATCAA ATAGACTGTA	1500
10	AATGTTCCAG AAATTAATCC AAGCCAACTA ATCAATATAC CTAATAATAGG TCCATAAGCT	1560
	TGAATGTTAA TAAAAATATA GAGTGCTAAA GGAAATACTG GAATTATAGC TCTAATATAT	1620
	AACAATATAA ATCCAGGTAA ATAACCAAAC TGTCGAAATA TCTCAAACCA TTCTTCTACT	1680
15	TGATGAAACG ACAATCATC AATCCCTTTC TTTGGTTGAA GATAATTATT CTTACATTAT	1740
	AAAGTTA	1747

(2) INFORMATION FOR SEQ ID NO: 686:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 645 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 686:

30	CGTAAAGATT ACTATTAGG AGGGTACTA TGA AAAAGAA ATTAGGTATG TTACTTCTTG	60
	TACCAGCCGT AACTTTATCA TTAGCCGCAT GTGGGAATGA TGATGAAAAA GATAAGATG	120
35	GCAAGGTAAC AATTWAAcGa CaGTTaTCCm TTGCAATcAT TTgCAGAGCA AATTGGTGGA	180
	AAACACGTGA AGGTATCATC AATCTATCCA GCAGGGACAG ATTTACATAG CTATGAACCA	240
	ACACAAAAAG ATATATTAAG TGCAAGCAAG TCAGACTTGT TTAATGTATAC AGGGGATAAT	300
40	TTAGATCCGG TTGCTAAGAA AGTTGCATCT ACTATCAAAG ATAAAGATAA AAAACTGTCT	360
	TTAGAGGATA AATTAGATAA AGCAAAGCTT TTAATGATC AACACGAGCA TGGTGAAGAG	420
	CATGAACATG AGGGACATGA TCAATGAGAAA GAAGAACATC ATCAATCATCA TGGTGGATAT	480
45	GATCCACACG TATGGTTAGA TCCTAAAATT AACCAAACCT TCGCTAAAGA AATTAAAGAT	540
	GAATTAGTGA AAAAAGATCC AaaACATAAA GATGACTATG AGAAAAACTA CnaAAATTAA	600
50	ACGACGATCT TAAGAAAATT GATAACGATA TGAAGCAAGT TACAA	645

(2) INFORMATION FOR SEQ ID NO: 687:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 956 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 687:

	TTGTACTG CTCTAAAT AATATCCTTT AATTGTTTAA CATGTTGGAT TGTATATGA	60
10	GGTGATGTA CATTAAAGG ATTTAATTCA TCTATTGTG CATATTGATT TATGACATCT	120
	TGATGCATTG AAATAGGGTT GATATCATTI GTTACTACTT TATTAGATTG GTCTTGTGAC	180
	ATACTAATG TGCCACCAGT ATGAATAACA AGTAGATGTT TCATATATTT CCTCCTATAT	240
15	TTAATTTACC TAATTATGAT AAAATATTAT TCATAAAACG ACAAGGAAGG GAAATGACGC	300
	ATGAAAGCCA TTAATATTGC ATTAGATGGT CCAGCTGCTG CCGAAAAAGG TACAATTGCG	360
	AAACGTGTAG CCAGCGAACT ATCAATGATT TATGTCGATA CAGGAGCAAT GTATCGTGCA	420
20	TTAACATACA AATATTtAAA ATTAACAAAA ACTGAGGACT TTGCAAAACT AGTTGACCAA	480
	ACAACATTAG ATTTAACTTA TAAAGCAGAT AAAGGTCAAT GTGTCATTTT AGATAACGAA	540
	GATGTAACAG ACTTTTAAAG AAATAATGAT GTGACGCAAC ATGTTTCATA CGTTCATCT	600
25	AAAGAGCCAG TACGTTCAAT CGCCGTTAAA AAACAAAAAG AGTTAGCTGC AGAAAAAGGT	660
	ATGTAATGAG ATGGTCGCGA TATCGGAACT GTAGTGCTAC CAGATGCAGA TTTAAAAGTA	720
30	TATATGATTG CATCAGTTGA AGAGCGAGCA GAAAGAAGAT ATAAAGATAA TCAATTAGA	780
	GGTATCGAAT CAAATTTTGA AGATTTAAAA CGTGATATTG AAGCTCGTGA TCAATATGAC	840
	ATGAACCGTG AAATATCACC ATTAAGAAAA GCAGATGATG CAGTGACATT AGATACGACm	900
35	GGCmAGTCGA TTGAAGAAGT TACTGACGAn ATTTTAGCGA TGGTGAGTnC AATTnA	956

(2) INFORMATION FOR SEQ ID NO: 688:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 1166 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 688:

	AAAGGGAGG AAGAGAACA GTTAAATATG AATACAAAAA AATTTTGTIT TCGGACAGCA	60
50	GGGGATTAG ACGGATTGA CAATGTCIGT TTAATTAAAC GTAATGTTTA TTTAAGCGAT	120
	GAATATTAG TGAAGAGTTT TTGAATTGA ATGTAATTGA GGTTTATTGA TTAGACATTT	180
	TATTGAATTG CGTGTTATTA TATAATGTA AAAATAAGAC GACATGCGCG AACATGTCGT	240

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5 TAATGCGGAA TGGTTTTTTT ATTTCCGCT AATTGAAATA AAAATGACGT TTAAATATAT 360
 TATGGGCTAG GTGGTTTGTG AGAAAGGGTT AGTTATTAAT GTTTTATGAA TTAAGGAAAT 420
 10 TTGAGTTTAA GGTTTAATCA ATTGTGATTT TGTGTATGAA GCGTTTAGTT AGAGTATTTT 480
 CGCCACCACT AGTTACTCCT TCTCCCACTT TACCGAGAG TGGAGAAGAG CTATCTGAAG 540
 AATAAATAGA TACTTTTTGG CCATTTTGTG GTAAACCAAG ACCTTTTAAC TtCTCGGTTA 600
 15 GAGAATCCCA TGTATTTTGA GCATCTAGCT TTTTGTAAAG GTCayCGTAG ACATTTTCCT 660
 TAGTAAATAC AATTGTTTTT AATCCTTTAA AGTCTATAGA TTGTGTTAGA TGGCCTCCAT 720
 20 CATCATTTCC AGGAGCAGAA ACGCTGCTAG AATATCCAAT GCTTAATAAA TAAGTAACGT 780
 TGATTGTTTC GTACTCGTTA CTAAAAATAA TATCAGAATC ATGTAAGAAT CTTTAACTTT 840
 TTTCCATAAT TGACCATCTG TCATTTTTTC TTCTGCTTTA GCCGTTTTAA CAACTTTATT 900
 25 TGTATCTAAT CCTAAGTATG AAGAATGTAA GCCTGTTCTT AATGTTGTTA ATACTAAAGC 960
 ACTTGCTACT AATGTTTTAC CTAAAAAttT TGTATTCATT TTTATGCTC CTTtTTTTAT 1020
 30 AITGTAAACG TTTACAATGA AATATAATA ATAAATTTTT AAAAGACAA TTAACATAAT 1080
 35 ATCAAAAATG TATTAACAT CTATTAAC TAATAATAGAA TAATTTTTTA ACATAGTTTT 1140
 GTTGTTTTGA ATTATAAAAA CTAAAG 1166

(2) INFORMATION FOR SEQ ID NO: 689:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1083 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 689:

40 AGCACTGAAG GATGGCTAGT TGTCATAGCA TATGCGGTCA TTGGTATAGT TATAACGAGC 60
 GTTCTTTATA TGTGTCTAT TAAATTTTTT AACAAACAAG AACTAKAAIT GTCGATTTTG 120
 45 GTGATGATAG TATTTGAAT AATATTAGA GCAGGTGATA AATCTTTACG ATTGTCATCT 180
 GTTCTTTTtG GTGTGGAATG AAATGTGGGG GATAAGTATA GGTGACATAT CTATATTGAT 240
 TTATTTGTTT TGAGGTGGTT ATGTTGTGTG GGAATTATTT CCTTTTAGAT AGCGGGGATT 300
 50 AGAGGATATA TGTATTTTAT AAGTATCAIT TGATGATTGT ATAGGCTAAC GATTTCCTCG 360
 GAAATATTTA AAAACCTCGA TCATGTAGCA TAACTGAAGT TTGTCACAAA AGTATAATGT 420
 GAAGTTCGAC ACTTTTGGaT TCAGTTCAAA TACTTTGACC GAGGTAAATA CTATTATTTC 480

TGATACTGAG ATAATCATTa CATGGTCGTG ACCTTTAAAT AAAAGGCTGA CAATATAAGA 600
 CATAACGAGT ATACCTAGTG AATATGAAAT ATACTTCGCG TTGTGCAGTT CATTATGGAA 660
 5 ATAAGGCGTG ATTAACCATa ATCCAATATA GAATATTAAa ACACGTATAT ACATCATATT 720
 AATTTCAAAC AAGTCATTTA GTTTATTGTT ATTACTAAa ACAATTGCAG CATTAAATCAC 780
 ACCTAAAGCG ATATTGATTA ATAGATGCGT ATACGATAa CGGAAACCGa TAGATGTTAA 840
 10 TTTATGATTA ATATAATTTT CAGTAATGAT CCAATATACA CCGAAAAGAC TAATTAAAAT 900
 CATAAATTGG AATATATAa TGTAACTAa ATGATCAATG CTAAATGATG ACGAAGCTAA 960
 15 ACCAACCAAGT ACCTCGCCa AGwTAtAaTT GTTAGTAACG AAAAACGTCT ACTAAATGCA 1020
 TCATATTAAC AGGTnTAATA CAAGTATTTT TGAATGGAA TAAGnCTGTC GCTGCATGAT 1080
 ACG 1083

20 (2) INFORMATION FOR SEQ ID NO: 690:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 627 base pairs
 (B) TYPE: nucleic acid
 25 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 690:

TTAATCATCT GGATGTATTT AGTATTnAGA ATAATAAnAA AACGATCATG TTGTATtTGA 60
 GTAGCGATTG GTTTGCGGAA TTAGGCTTTA CTTTCTTTAA TTACCACTAT ACAGCAAAGT 120
 35 TGATTAAATC ATCCTATAAT TTGAAATGTC TACTATTAAa ATTGACATAT CGATACCTTG 180
 ATAATCAGCC TCTTAATGAC GCTGATyTA GAAAATTACA GGATATTATT AAAATCATTG 240
 CAAAAGAAGC AAGTATGGAT AAAAAGATTG CACAAAATCA ATATCGATAT GCGTATTATG 300
 40 GTGATTTCGC TGATGAGCTC GAATATATTT ATCAAAATGT AAATCAACGA TTGACATTAA 360
 AAAGTGTCGC TGATAAAITTA TTTGTCTCAA AGTCAAATTT GTCATCACAA TTCCACTTAC 420
 TTATGGGCAT GGGTTTAAa AAATATATTG ATACTTTGAA AATnGGTAAa TCGATTGAAA 480
 45 TTCTACTTAC TACTGATAGT ACTATTAGCA ACATAAGTGA nCATTTAGGT TTAGTAGTAA 540
 GCTCCACTTA CTCTAAAATG TTTAAAAGTT ATATGGATAT CACACCGAAT GAATATCGTA 600
 50 ATTTATCAAA ATATAATAAn TGTTTAC 627

(2) INFORMATION FOR SEQ ID NO: 691:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 641 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 691:

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TTGAACGTAA TGCTAGCAAA TGACTTTGTG CCATAAAATA TTCTCCCAT TTGATTCTTT      60
CCAAGATGTT CACCTTCCAT ACTTAAATTT TAGTAACATT TTCTAATAAT ATAAGATTAA      120
TCACAAAAAA TAAATTTTGC AATTAAAAATA ATCCATTATG TCGTGAAATA AGATTTCAGT      180
TTATCAAAAG TTTTACTTCC AAAACCTTTT ACTTTTTTCA AATCGTCAAT TTCTGAAAT      240
GCACCTTGTT GGTTCGATA TTCAACAATT GCATTAGCIT TAGCTTGCCC AACTCCAGGA      300
ACAGACATCA ATTCTGATAC AGATGCCGTA TTAAATTTA CTITAGTATT ATTTGTGTC      360
CCAATTTTTT CGTGCAACT GTTTACTTCA ATTTGTGGTT CAACATCTCT TTGTCCTTTA      420
TGAGGTATGA AATCATTTT TTGATCTGTT AATTTTTCAG ACAATTAAT TTGACTTACA      480
TCTGCATCTC CCAATAATTG TGCCTTATCA AGTAAATCAA CTACTCTATC CTTAGATGTC      540
ATTTTATAAA CATTAGGATG TTAAACAGCA CCTTTTACAT CGACATATAC AGGACCCCTTA      600
TTTITGGAAAT TATCTCCATC TTTGACCTGG ACATCTTCTA C                          641

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(2) INFORMATION FOR SEQ ID NO: 692:

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(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 631 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 692:

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TATTAAAGnA CTGTATGAAC CAAATCATAA AAAGCnATAT ATGTTATTTG CAGCTGGCAT      60
TGTGTTnGCA ACTATTTTAC TTATTTTCGGC ACATTTATAC AGCAGAAAGA GAGGTAACCA      120
AGTTTGAGAA TCATAAAGTA TTAAACCAIT TTAGTGATAA GCGTCGTTAT CTTAACCAGC      180
TGTCATCTTT CCAGTTCTCA AGAATCAACT AAATCCGGCG AATTCAGAAT CGTACCAACA      240
ACTGTTGCAT TGACAATGAC ATTGGACAAA TTGGATTTAC CAATTGTCGG CAAACCCACG      300
TCATATAAGA CATTCGCTTA TCGTTATAAA GATGTACCGG AAATTGGTCA ACCAATGGAG      360
CCGAATGTTG AAGCTGTTAA AAAGTTAAAA CCAACACATG TTTTGAGTGT GTCAACGATT      420
AAAGATGAAA TGCAACCAIT TTACAACAA TTAAATATGA AAGGCTACTT TTATGATTTT      480
GATAGTTTAA AAGGGATGCA AAAGTCGATT ACACAATTAG GTGATCAATT TAAATCGTAA      540

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GCAGCTAAAC AAAAGAAACA TCCCAAAGTA T

631

(2) INFORMATION FOR SEQ ID NO: 693:

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1111 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 693:

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AATTTAACTA TGTITTCAC ATGTTTCAT GTCACGAAA GGACAACGCG CGACTATAAG 60

TATCAACTAT TTCACAAGT TTTATGGTG TTTTATTAT TCATCGATAC GCTTCATTT 120

CATCTCTCCA ACACAAAAA GAAGCTAAGC AACTTATGTT GCCTAACTCC TCTATACTAT 180

20

CCATATTTTA CTATTATCCA TATTTCATTG AATTATCTAA TGTTGGCTTC TAITTTTTTCA 240

ATATTCTAC CGTCAATGAC GTCACATG CGATTGGTT GTAATTTTTT ATTAAGTTCA 300

AACGTATAAT AGCGCCATC TTTCATTATC ACTTTTATCT TACTATCTTT AGGAACTTT 360

25

TTATACAGAT CAAATTTTG AATTAAATAC TGTCTCAATT TAAAGTGAG TCTTTTAAGT 420

GAAATCTCTT CTTTATAAAT GTAGTGTACT CTACCGTACG TAGCAATACC GTCACCTTCA 480

TCTCTCTTGA TTTGAAATCT TGGTGC GTTT ATATAATCAT AATAAGCGTC TTGATTTTTC 540

30

TTAGTGACAC CACCATATGA AAACACTGTG CCATTACGGT TTTCCGCTTC TTTAACAACA 600

AATATGTCTA ATCCCGGATT TTTACGTGCT TTAATCTTT CAATATCTTT ACCAAATATC 660

35

TGACTCTTGT TGAATTTTCT ATTTTATCA AAGATAAGGT AATGCTTGCC ACCTTTGCTA 720

TAACGATAAC CAGTAACATT TTTAAGTTCC TTACTTGCGC CACTATAGTA ATCTCTTAAG 780

TCAAAGATAT CTTTGTGCAC ATTTTCATAT TTGTCTTAT GTTCACTCGC ATTTACAGTT 840

40

TGATGCAATG ACGTTATGT TCCTGTTGCT AAAATACCTA ATGCTAACT TGCTTTCGCA 900

ATTGCTGTCA TTTTCATAGT TGTATGCTCC ATTCGTAATT ATTAGATTG TTGCTTACG 960

TCTATTGAAT CATACAGCTT TATTATAGTT AGCGTATTTG ACCTTTCACA TTAACCATG 1020

45

TTTAATAATC ATTGAATCAT TATTAAGTAA ATTAAGGATC TATAATGTTT GTTAAATAAA 1080

CTGATCCCGT TGTGCTTCAC ACCCGTnGA T 1111

(2) INFORMATION FOR SEQ ID NO: 694:

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 426 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 694:

5	TTATGGATGG ATTAAGAGGT CGTGTGAAA AAATCAACGA TAACCTCTGTT ATTGTTGACT	60
	TAACAATTAAT GAAAAATTIT AATGACCTTG ATTTACCGGA AAAAAGCTGT ATCAATCATA	120
	AACGATATAA GATTGTTGAA TAAGAAGGTA AGTTATAATG AATAAAATCT CGAAGGCTTT	180
10	AACCTGGTTT ATATAAGTT TCATTATATT TCATCTCATA TTATTATTAT TGTGGGGCGA	240
	ACACCAAGAA TACTGGTATT TATATACAGG TATAATGCTA ATTGCTGGTA TCAGTTATGT	300
	ATTTTATCAA AGAGATATTG AATCTAAGCG GTTGCTTACA TCAATTGGTG TTGTTATTAT	360
15	TACGGCAATT ATTTTAATTA TGCTTCAACT TTTATKCTCA CTTATAACTT CTAATTTAAG	420
	TTATAG	426

(2) INFORMATION FOR SEQ ID NO: 695:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 737 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 695:

30	AAAAGGGGnG TAAGGTTTAG CTCAGTACG AGAAGCTTTT GGTGATGAAG CAATTGATGA	60
	AAATGOTGAG ATGAATCGTC GTTATATGGG TGATCTAGTG TTAAATCATC CAGAAAAACG	120
	CTTAGAATTA AATGCTATCA TACATCCTAT CGTGGGAGAT ATTATGGAAG AAGAAAAAGCA	180
35	AGAATATTTA AAACAAGGAT ATAATGTAAT CATGGATATT CCATTATTAT TTGAAAATGA	240
	ATTGAAAAAT GCAGTAGACG AAGTGTGGGT TGTATACACT TCTGAAAGTA TACAATGGA	300
40	TCGTTTAAAT CAACGAATAA ATTTGTCAAT AGAAGATGCG AAAGCACGTG TCTATAGCCA	360
	AATTTCTATT GATAAAAAAA GCCGAATGGC CGATCATGTT ATCGATAATT TAGGGGATAA	420
	ACTTGAATTA AAACAAAACC TTGAGAGATT GTTAGAAGAA GAAGGTTATA TTGAAAAGCC	480
45	GAATTACGGA GAAGAAGATT AATATTACAC TATAAATAAG TCATTACTTT ACGTACGCGT	540
	TGATGTATGT AAGTAATGAC TATTTTTTAT AAAAAAGATA AATAAATCAA CGGAAAAACGC	600
	TTTCAAAATT CATATAATAT GCTATACTAA TTCCATAAAG TATAACACAT AAAGATCAAG	660
50	GGGTGCTTTT AATGTCAACG AATATTGCAA TTAATGGTAT GGGTAGAATT GGAAGAATGG	720
	TATTACGTAT TGCATTA	737

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 432 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 696:

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10 AACGATAAGA ACAAAAGATA TATTACAAAG CGTTTATTTA AAACGTTATT TATTAGCGCG      60
   GATGATGGCA GGATTTATTA TCGGGATTAT TACGGTCTTC GTATTATCAG TTAAGCAAC      120
   ACACGAACCA GATTTACCGC CAGGCATTGT GAATATGGCC AGTGCCATTA CATTGAGCTT      180
15 TGCGTTAGTA CTCATTTTAT TTACAAACTC CGAACTACTA ACCAGTAACT TCATGTACTT      240
   TACTGTAGGC CTGTAATTmTA AAGTAATTAA ACCAACTAGA GTATTGaaaa TATTTTATT      300
20 ATGCTTTGCA GGAAATAATT TAGGTGCTGC TATTtYATTT AGTTTCATGC GTTTTTCAAA      360
   TGTAAATGAGC CCAGATAwGt TAAAYCAGTT ATCAGCAGTT ATAGAGCATA AAACGTTGTC      420
   TACTGGTTTT GT                                     432

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(2) INFORMATION FOR SEQ ID NO: 697:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 782 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 697:

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35 CTTTATACG AAAGTTAAaA TCAATATATA CATTAATGTT TGATGGGGAT TTTCCGGGTA      60
   GTGAmGCAAC ACTTAAAAA GGTCAAAATT TGTTACAGCA AGGGCTAAAT GTATTTGTTA      120
40 TACAATTGCC ATCAGGCATG GATCCGGATG AATACATTGG TAAGTATGGC AACGATGCAT      180
   TTACTGCTTT TGTAAAAAAT GACAAAAAGT CATTTCACAC TTATAAAGTG AGTATATTAA      240
   AAGATGAAAT TGCACATAAT GACCTTTCAT ATGAACGTTA TTTGAAAGAA CTAAGTCATG      300
45 ATATTTCGCT TATGAAATCA TCGATTTTGC AACAAAAGGC TTTAAATGAT GTTGACCAT      360
   TTTCAATGT  TAGTCTGAG CAATTAGCTA ACGAAATACA ATTCAATCAA GCACCAGCCA      420
   ATTATTATCC AGAAGATGAG TATGGCGGTT ACATTGAACC TGAGCCAATT GGTATGGCAC      480
50 AATTTGACAA TTTGAGCCGT CAAGAAAAAG CGGACnAGCA TTTTAAAAAC ATTTAATGAG      540
   AGATAAAGAT ACATTTTTTAA ATTATTATGA AAGTGTGAT AAGGATAACT TCACAAATCA      600

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TATCAGTGAT GCTGTCAGT ATGTTAATTC AAATGAGTTG AGAGAAACAC TAATTAGCTT 720
 AGAACAAATAT AATTTGAATG ACGAACCATA TGAAAATGAA ATTGATGATT ATGTCAAATGT 780
 5 TA 782

(2) INFORMATION FOR SEQ ID NO: 698:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 714 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 698:

AAATCATGG CAAATATAC GAAATGCATT TAAATCGTCA ATTACATAT ATTTTTCGCT 60
 AGTAATCAAT CGTATCATT GTTATTTATC GTTACATTAT TTCGAGTATC AGTATGTATT 120
 TCGGCTTCG TTGATACAG ACAATTCCTT GTGACATCGC TTCATCAGTG TAACAACAAA 180
 TACAATGATT TCGTGATGTT AGTTACCCAT TTTATGTGTT GCATAAAATA TGTGTTTATA 240
 AAACATTTTA AATCATTTTA TATAACAAT CTATATATTT TTGGCATTTC CAAAATATCA 300
 CTGTTTATAT TAAAAACCGA CAAGACATTT TATCTTATCG GTTGAAAATT GTTATTGTTA 360
 TTTGTAATGT TTTTAGGTTT CTTTTTAATA TAATATAITTT CAGTAAAAAT ACATGATTGA 420
 TTGTGATTTC ACTGAACAT GGTTAATTGC GTTGTGATG AATAACTTTA GCATAAATAT 480
 AGGAAGTTAT TTGTACATC GCCATATATA GAAACGAAAT TATAATGACA GCTAGTACGT 540
 AACTTGTTAA AAATATATGA TGGTTATTAA TACCTATCAT ATTTAGTAAC GTATATACAA 600
 TGTTACTAGA AATTAAATGTG TGAATCAGTG CTACTGTTAT TGGTATCGG AACCAAGAAAG 660
 TCATTTGATT TCGTGTATC TTTGCTATTC TTCCATTATC TAAACCAAGT TTTT 714

(2) INFORMATION FOR SEQ ID NO: 699:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 361 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 699:

ACTGAGAGCA ATAATTTAGT AACTTCTACT CAAGGAATTA TTAAGAAGC ATTGCATAAA 60
 TTGGGATTGG nTTTAATTA AAGAACCTTT AAGATGTTA CAAGTGCCTA CCCCTGTACG 120

TGGACCAACA AAAGGGGGCG TGGGTTTCCA CCCAGATGTT GATGAAGAAG AAGTAAAAAGC 240
 ATTATCAATG TGGATGACTT TGAATGTGG CATTGTGAAA CTTACCATAC GGTGGTGGTT 300
 5 AAGGGTGGTG ATCGTTTGTG GATCCACGTC AAAGGAGCAT TCCATGAAGT TGGAACTGTT 360
 A 361

(2) INFORMATION FOR SEQ ID NO: 700:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 943 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 700:

20 GTCCTTAATT GGTATCCACC TTTAGCACCG CGTACACTTC GAATTAACCC CGCATTTCTT 60
 AAAGGACCTA CAAGCTGTTT TAAATATAAA TCACTCAAAAT TATTTCTCTC AGCAATTGAC 120
 TTTAATGATA TACATCCTTG CCCCTCTTTT TTAGCAAGAG AATCATCAA TGTAAGTCCA 180
 25 TATCTCCCTT TAGTAGAAAT TTTCATTGTA TAACCTCACT TAATTCGAAT ATTGATATTC 240
 CCATTTTAGC ATTTTTTGAG TTAAGATAGT ATAAGAAAGG TGTGACAAAT GTGAGTACAG 300
 AACCATTAGC ATCGAGAATG CGCCCCAAAA ATATAGATGA AATCATTTCC CAACAACATT 360
 30 TAGTTGGACC AAGAGGCATT ATCAGAGAA TGGTTGATAC AAAAAAATTA ACTTCAATGA 420
 TTTTTTATGG TCCACCTGGT ATAGGCAAAA CAAGTATTGC CAAAGCAATT TCGGGCAGTA 480
 CGCAATATAA ATTAGACAAA TTGAATGCTG TAACTAACAC TAAAAAAGAT ATGCAACTTG 540
 35 TTGTTGAAGA AGCTAAAAATG TCTGGTCAAG TTATCTTGTT ATTAGATGAA ATACATCGAC 600
 TAGATAAAGC TAAACAAGAC TTTTATTATC CTCATTTAGA AAATGGCAAA ATCGTCTTGA 660
 40 TCGGTGCTAC AACTTCAAAAT CCTTATCATG CTATCAATCC AGCGATTCTG TCAAGAGCGC 720
 AAATTTCGA GTTATATCCT TTAATGACG AaGATGTGCG CCAAGCGTTA ACTCGTGCAA 780
 TAGAAGATGA TGAGAATGGT TTGAAACAT ATCaACCCAA AATTGATGAA GATGCCATGA 840
 45 CCTACTTTTC TACACAAGC CAAGGTGATG TTCGTAGTGC GTTAAATGCA TTGGAATTAG 900
 CTGTATTAAAG CGCAGATAAT GACAAAGACG GTTATCGACA TGT 943

(2) INFORMATION FOR SEQ ID NO: 701:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 445 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 701:

5 CATTAAGTGA AGTTGTTGAT ACACCCATGC ATCAAGTCAA TTGTTCTGTT GATTTAGATA 60
 CAGAAAGCTT ATTAGGCTTT AAAACAATTA AAACAAATGC GGAAGGTCAA CAAGAAATTG 120
 TCTTTGTAGA TGTCCAGTT ATTAAGCTA TGAAGAGGG GCATATTTA TATATTGATG 180
 10 AAATAAATAT GGCTAAACCT GAAACATTGC CTGTATTAAA TGGGGTCTTA GATTATCGTC 240
 GTCAAATTAC GAATCCATAC ACTGGTGAAG TAATCAAAGC TGTACCAGGA TTAAACGTTA 300
 TAGCAGCGAT AAATGAAGGT TATGTTGGTA CTTTGCCAAT GAATGAAGCA CTAATAAAAT 360
 15 CGCYTGTGTT TtATTCACGT kGATTATATT GATGGGGA CA TTTAAAAAAT GTGATTAAGG 420
 AGCAAGGTTT ATTACAAGAT GTTAA 445

(2) INFORMATION FOR SEQ ID NO: 702:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 752 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 25 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 702:

30 TGCAAGATAA ACAAATTTGT CATGTGTTTG GTTGTA AAAA AGGTGGCAAT GTTTTCAAT 60
 TTA CTCAAGA AATTAAGAC ATATCATTTG TTGAAGCGGT TAAAGAAATTA GGTGATAGAs 120
 TTAATGTTGC TG TAGATATT GAGGCAACAC AATCTAACTC AAATGTTCAA ATTGCTTCKG 180
 35 AYGATTTACA AATGATTGAA ATGCATGAGT TAATACAAGA ATTTTATTAT TACGCTTTAA 240
 CAAAGACAGT CGAAGGCGAA CAAGCATTAA CGTACTTACA AGAACGTGGT TTTACAGATG 300
 CGCTTATTAA AGAGCGAGGC ATTGGCTTTG CACCGGATAG CTCACATTTT TGTGATGATT 360
 40 TTCTTCAAAA AAAGGGTTAC GATATTGAAT TAGCATATGA AGCCGGATTA TTATCACGTA 420
 ACGAAGAAAA TTTCA GTTAT TACGATAGAT TTGGAATCG TATTATTGTT CCTTTGAAAA 480
 ATGCGCAAGG AAGAAITGTT GGATATTCAG GTGGAACATA TACCGGTCAA GAACAAAAAT 540
 45 ACTTAATAG TCCTGAAACA CCTATCTTTC AAAAAAGAAA GTTGTTATAC AACTTAGATA 600
 AAGCGCGTAA ATCAATTAGA AAATTAGATG AAATCGTaTT ACTAGAAGGT TTTATGGATG 660
 TTATAAAATC TGACTACTGCT GCGTTGAAAA ACGTTGTGTC AACAAATGGGT ACACAGTTGT 720
 50 CAGATGAACA TATTACTTTT ATACGAAAGT TA 752

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 830 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 703:

10 nCGTTTGTG TAAACnGCTT ATATGTATAA CTTTCCCAA TTATCATAA GTTTGATAG 60
 AAGGAGTTGG ATCGCTAAG AAAATATCTC TAAAGATATC ATCTTCAATG ATAGGAATAT 120
 15 TATGTCCTTC GCTATAAGTA ATTATATTTT TCTTTTGCTC ATTCGTTAAA GAACGACCTG 180
 TCGGGTATAT AAACCTAGGT TCTATATAAA TCGCTTTATT TTTAAAATTA ATAAATCTAT 240
 CAATGATGGT ATCAATTICA TTAATTGTAT TATAAGGAAC ATCAATATGT CTAAAATTTCA 300
 20 ATTGCTCAA AACATTGTA GAGTGAATAT ATGATGGTGT ATTGAAAATT ATTATGGCAT 360
 CTTGACCTAA AAACCAATA GATAAAAGTT GAATGGCATG TAAAGCCGCT GAAGTGATCA 420
 TTACATTTTC TCTACCTACA TTTATACCTT GCTTTGACAT TCGTTCAACG ATAATATCTC 480
 25 TTAACITGAT ATAACCATAG CCATTATTAT AACCAAAAGA TAAGTCTTCA ATATGACTGG 540
 CTGTATTAGA CATGGCTTTT TTCAATTGAA TATGTGGCAT TAACGATATA CCCAATTCAC 600
 CTTACTTAT ATGTATATAC GAATCATCTG TCTCAATTTT ATTAATTAAT TGCACCGTAT 660
 30 ACTGACTTCT TTGTGAGAG GACCATAACA TCATTTCAGA CCACCTTATT GTAATATGTG 720
 CTTCAATCAA ATAGTCAITA ACATATGkTC CACTACCTAC TTTAGTATAG ATAAATCCTT 780
 CAGCTTCTAA TAACTCAATA CTTTAAATAA TCGTTACTCT ATTTACGTTG 830

(2) INFORMATION FOR SEQ ID NO: 704:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 659 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 704:

45 AGTGGTGTG GAAAAGCTAT TATGAAATTA TTACGTGAAC AACAGTTTA ATAAAAAAG 60
 AGGGGTCAA TATGAAAGGA TTAATTATTA TTGGCAGTGC ACAAGTGAAT TCACATACAA 120
 50 GTGCACTAGC AAGATACTTA ACTGAGCATT TTAACAACA TGATATTGAA GCGGAAATAT 180
 TCGATTAGC AGAAAAACCG TTAATCAAT TAGATTTTTC AGGAACAACA CCGTCTATTG 240

	TATTAGGAAC GCCAACTAT CATGGTTCAT ATTCTGGAAT ATTGAAAAAT GCATTAGATC	360
	ATCTAAATAT GGATTATTTT AAAATGAAAC CTGTAGGCTT AATAGGAAAT AGTGGTGGTA	420
5	TTGTTAGTTC AGAGCCATTG TCACATTTAA GAGTAATCGT CAGAAGTTTA CTAGGCATTG	480
	CTGTACCAAC TCAATAGCA ACACATGATT CTGATTTTGC TAAAAATGAA GATGGTTCAT	540
	ATTACTTAAA TGATAGTGAA TTCCAATTAC GAGCAAGATT ATTGTGCGAT CAAATTGTAT	600
10	CTTTTGIGAA TAATAGTCCA TATGAACATT TAAAAATAA TTAATAAATA TGTAAATnT	659

(2) INFORMATION FOR SEQ ID NO: 705:

	(i) SEQUENCE CHARACTERISTICS:
15	(A) LENGTH: 400 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 705:

	ECACCATATA GTAAGTGGCA CCAACTACAT TACCGTCTTT TAAAAAGATT TTTTATAGT	60
25	TATTATCAAC ACTATTAAAT ATTCAATAC GTTAAATTTC TGCATTITCT ACAATTGAC	120
	CAGCACTATA CAGTCACAC CCAGAAACTT TTAATGACGT AAATGTTGTT GATCCCTTGT	180
	ATCGGTTCTG TTCTTTATTT GTTAAATGAT CAGCTAATAC TTACCTTGT TCATATAGTG	240
30	GTGCAACGAG TCCATAAACT TTGCGTTTAT GTCTGCACAT TCACCAACTG CATATACATT	300
	GCTATCACTT GTTTGCATCA CATCATGAC AACAAATACCA CGATTACATC TAGACCTGAT	360
	CTTGGCACTC CTGGGAAGGC GGAACCACTG CATACAATA	400

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(2) INFORMATION FOR SEQ ID NO: 706:

	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 380 base pairs
40	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 706:

	TAAAAATAC AGCTACAGGT AAITTTAATG ATTTTTCATC AATATCAAAT TTGGGATTAT	60
	GGTGTGCGC TGTAATACCT TTAACCACTC AGAAGAATG CACCTGTGCG TACTTTCAA	120
50	TAATGTGAAA AATCTTCTCC AATCATCATT AAATCTGATT CATTAAAGCG TACATGTAAG	180
	TCATTGTTG CTTCCTTAAT AACTTGGATA TGCTTCTCG TTTATTATGG ACAGGCAAA	240

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GCTTAATCCA TTTTGTCCAT ACATGATTCT GTATATCTGA AATCGAAAGT TCTnACTGTA 360
 CCTTTACAAA ATGCCTTGnn 380

5 (2) INFORMATION FOR SEQ ID NO: 707:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 707:

CnnAAAGGAT CAAAGTGATC GGTATAGTGA TAATTAGCTC CAAAGAAAGA ATATTCTAAA 60
 TCAAAATCCAT ACCAAGCAGA AAGTATTAGC GAATATCAAT TTAATGTGTA CCGATTCAAA 120
 20 TAAAGAAACA CGACATATAG AATTTTACT TGATGATTTT AGTGAATCAT ATGAACCAGG 180
 AGATTGTATA GTAGCATTAC CGCAAAACGA CCTGAAATG GTTGAAAAAC TAATATCCAT 240
 GTTAGGTTGG GATCGCAAT CTCGGTGCC AATTAATGAT CATGGTGATA CAGTTCCTAT 300
 25 TGTGAAGCA CTAACATCAC ATTTTGAATT TACTAAATTA ACATTGCCAT TATTGAAAAA 360
 TGCAGATATC TATTTTGACA ATGAAGAATT ATCTGAnCGT 400

30 (2) INFORMATION FOR SEQ ID NO: 708:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 447 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 708:

40 TAATGCTGGT ACGGGTCATG CAGCATTATG TGAGTTGAAC TACACAGTTT TACAACCTGA 60
 TGGTCTTATC GACATCGAAA AAGCGAAAGT GATTAAACGAA GAGTTTGAGA TTTCAAAACA 120
 ATTCTGGGGT CACTTAGTGA AAAGCGGTAG CATCGAGAAC CCAAGAGAAT TTATCAATCC 180
 45 ATTACCACAC ATCAGTTATG TTAGAGGTAA AAACAATGTT AAATTCTTAA AAGATCGTTA 240
 CGAAGCGATG AAAGCTTTCC CTATGTTTGA TAATATCGAA TATACTGAAG ACATCGAAGT 300
 AATGAAAAAA TGGATTCCAT TGATGATGAA AGGCCGTGAA GATAACCTGT GTATCATGGC 360
 50 GCGAAGTAAA ATTGACGAGT GTmCAGATGT AAmCTyCGGT GAATTAACAC GTAAAAATGCC 420
 TAAAGCATT GAAGCACATC CAAATGC 447

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1448 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 709:

10	GTGTCTACCT GTTTTTGGTG TTCAATTGTT AACTTTTCIT TTGGAATAGT AGTATTCGAT	60
	AATCTTTIAT CGCTTATAAA ATCATCTAGT GGATGGCTTT CTTTGAAACT TTTATTTTCA	120
15	GTCATCAATC ATCTCTCCAA TAGTGTCTAT TTTACATCAA TCTTGATGAT GTTTTGTGAT	180
	TAACCTATTT AATTCCATTT CAATATCTAA ACGTTCATAA TCATCTTGGT TGAGACGCTT	240
	TAAATCAGCG ATTAATGTTC GTTTGACCTC ATCCAAAGTA ATTGGTGTTC GTTCTAACTT	300
20	TTGCTGTGTA TTAATTGATT TTTTGGGCAT TTTTGCTAGA CGTGTATATG CATCAACCAA	360
	ATTTAAAGCA TTATCAATAT GAGAATAAAA AAAGCCTTCA ACTTTATAAA ATGATGCAGG	420
	TCTCTGTCTA ACTGTCGTAT AAATAGAACG TGAAATTGGG TATATATCAT TAATCTGCCT	480
25	AAAATCTTTA ATTGATCTTA TATTGACATA CGTTTTTAAA ATACCTCTAA GTTTTTGGTG	540
	TGTATGATTT AACTGATTTT GAATATAGCG ATAGTCTTTT CTAGTCAAA CAAATTTTCGTT	600
	TAAATATTGG CGTGAAGTGA GTTTTTGTAT CGGTAGGTAT GTCATTAAAA AGCCAACAAT	660
30	ACCAATAGAC ATATCAATTA AAAAGATAC ATCAAGTGCA ATCATCCCAA ATATGCTTGT	720
	TAAAAACGCT ACAGGAATTC CCACTAACAC CCCAATATA TGAGAAATAT TATATCTCAC	780
35	TGTCATCTTC CTTTATTAG CATTTTATAT TGATOGAAAA TCCGATAATT TTTGATTTAG	840
	TTCTAACTCT TCAAGTTGAT GGCTTGTAC ATTTGATGCT GGTGAGGCAC CTTCAAATTAC	900
	ACCTTGAATA AATCTCTCTA TATCTGCGTC ATCCCTTGTG GCATATATCT CTACATAGTC	960
40	ATCTACATTT TGAACAGTAC CGACAATGTT ATAGTTCATT GCAATGCGTT GTGTAAAAA	1020
	TCTAAATCCG ACGCCTTGAA CGGTCGGA TACTTGTAAT TGTATATGTC TcATTTTTAC	1080
	CACCTCATAA TGTTATTATA CGTAGTTTTA CTTAAAAAAA CTAATAATTA CTATAGTTAC	1140
45	TACTTTGTTC GTTTCAGTTC GTCAAACCTG ATTTTCAGAG GATAAAGGTA TAAAAATAAG	1200
	TATAGAGTTT TTGAAGTATG GAAGGGGTCT TTAATAATGT GGACAGTTAC CAAAATTAGA	1260
	GCGGATTATG AGGGATGGTG GTTATTCAGT GACTGGCCAG AAAACATTTG TGAATAATAT	1320
50	CAATATCAAG ATTTTGATGA CATGTTTAA GCACTATCAAC AATTGATTAA TCAATGTAAA	1380
	GTTCAGTTTC ATAATATGT CACAGGCAAA TATAATATTT ATGCATTTTA TAATAATTGT	1440

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(2) INFORMATION FOR SEQ ID NO: 710:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 519 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 710:

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GCTGAAAAAT ATGTTAGAAG CAGATGCATG GGCAAGCTG GGGTCCTTAT TTATTGTGAG      60
GTAAAGATGT CTTCAAATCA ACTATTGGAA TATATGGTAT GGGAGATATT GGTAAAGCTT      120
TTGCAAGAAG GTTGCAAGGG TTTAATACTA ATATTCTTTA TCATAATCGA TCAAGACATA      180
AAGATGCAGA GCGCGACTTT AATGCAACAT ATGTTCTTTT TGAACGTTG TTAGCAGAAA      240
GTGATTTTAT CATCTGTACA GCGCCACTTA CAAAGAAAC ACATCATAAA TTTAATGCTG      300
AAGCATTTGA ACAAAATGAA AATGATGCAA TTTTATTAA TATCGTAGA GGCACAAATTG      360
TAGATGAAAC AGCATTAAATC GATGCACTAG ACAATAAAGA AATTTTAGCA TGTGTTTAG      420
ATGTATTAGC AAATGaACG ATTGATCaTA CACATCCATT aATGGGaCGT GaTAATGtTC      480
TGaTTaCACC aCACATTGGG TAGGCGCATT CAGTTAACh                               519

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(2) INFORMATION FOR SEQ ID NO: 711:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1349 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 711:

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CTATTACAGG TGGCGAACCA ATGTTTTCTA AAAAGTCTAT TAGAAATGTT GTTAAACCTC      60
TATTAAGTA TGCACATCAT CGAGTATAT ATACACAAAT GAATCAAAC CTAACATTGC      120
CTCAAGATCG TTATTTAGAT ATTGCTGAAT ATATCGATGT TATGCATATC TCACACAACCT      180
GGGAACAAC TGATGAATTC GCAATGTTG GCTTTGGCGC AATGAAGAAG CAACCACCGT      240
TAAAGCTAA GTTAAATTA TATGAACAAA TGATTTCGAA TGCACGTACA TTATCAGAAC      300
AAGGAATGTT TGTATCTGCG GAAACAATGC TCAATCAAAG TACGCTACCA CATTTCAGAA      360
AAATACATCA AGAAGTCGTT CATGATATGA AATGTAGCAG ACACGAGATT CACCCTATGT      420
ATCCAGCTGA CTTTGCAAGT CAATTAAATG TGTTAACTCT AGCGAAATG AAAAGACAA      480

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TGTTCATG CTTAAAGGAT GATGAAGATC AAAAGTTACT ATCAGCTTAA AGAAATGCTA 600
 AAAATGTAAC GACTAGAAAT GACCCGGATG GCCGTAGTCG TTTAAATGTC AATGATTTTA 660
 5 CAGGTAATGT AATCGTAACT GATTTCGGAG ATGAAACAGG TACAATTTCC AATATACAAA 720
 AAGATAAATT AACAGATGTA TTGATAAAAT GGTATCCCTC TGATCTTGCT AAATCATTAA 780
 ATTGTCATTG TTCCGAGTTT AGTTGTTTAG GGCCAAATGT TCTTGTTAAA AATATGTACT 840
 10 ATCCGAATAT GGATTTTAAA GATAATGAGC GTCATATGCA CAAACAACCA CAAATATATC 900
 AATTTTAAAA ACTCTTAATT ATGCGGAGAA GCACCTTATC GATAAGTAGT CTCGCGCATAT 960
 TTTAATGCTA TTATAAATA AAAACAATT AATTGCTGGC AGTACTCTAC TTAAATAATA 1020
 15 AAGGGCATTT AATAGGACTA ATAGTCTATA ATAAAGGGG TAAATTTTAA CTAAAGCAT 1080
 AAACGTGCAT AATCAAAAAG ACAGATTGTA GGTGGAATAT TCGAaCATAA CAGTTCAATT 1140
 20 CATCCTTAAC AATCTGTCTT TATATTTTAA GTCTCTAATA TGTGTCACCT GAGCTAAATA 1200
 TTCAATTGTT gTTTACTTtC AatGCGacGt GCTTtctCtC GTtCaCaCg TgwGGTGTG 1260
 TATCATAAAA CCATTTTTCa ACATCATCTT CTGGATATAC ACCAGGTACA TGTTTAGGTT 1320
 25 GCCTTCATCA TCTAACGCAa CAAATGTAA 1349

(2) INFORMATION FOR SEQ ID NO: 712:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 377 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 712:

GAAATTAATAA AAGCAATTGG ACAAGATGCA ACAGTGTCTAT TGTTTGATGA ATTTGATAAA 60
 40 AAATTATACA CTACGGCGA TAACGGGGT CGTGGTGGAG AAGTATTATA TCAAGCATTT 120
 GGTTTGAAAA TGCAACCAGA ACAACAAAAG TTAACCTGCA AAACAGGTh GGCCTGAATT 180
 GAACAGGAG GAATTGAAA ATATGCTGGG GATTACATTG TGAGTACAAG TGAAGGTAAA 240
 45 CCTACACCAG GATACGAATC AACAAACATG TGAAGAATT TGAAGCTAC TAAAGAAGGA 300
 CATATTGTTA AAGTTGATGC TGGTACATAC TGGTACAACG TCCTTATACA TTAGATTTCA 360
 TGCUTAAAGA TTAAAA 377

(2) INFORMATION FOR SEQ ID NO: 713:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 528 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 713:

AATGAAnCGA AAAATGACTA TAAAAAGTTT AAAGTGTITT CACTTATTTT AACACTGTGC	60
ATTGTCAITTT TAGCAATAT AAGATTGTIT CATAAAAATGA TGTAATTAGA GTGAGACATT	120
GTTTTATGTC TCAGGATCCA GTTATTCATT ATATCTACAA TATTTACGAT TATATAAATA	180
ACCCGAGATT TTAGTATGAT TCATTTCCTT AAAATCTCGG GTTCTATTTT GATAATTTTT	240
AATGGGATAT GGCATGTATA CGTCTTGGCC TTTTATCTCA TTCCAATGA TTAATCTGGA	300
TATTGTCTTA AAAATGCTTT CGCTTCTTTA TTAAGTGTIT TAAATCAAT ACCTTGTGTC	360
ATCGCTGCAA AGACACATCC ACAATAACAC TGCCATAAGA TATTATAGTC ATTACACATT	420
TCTATGGaAC GCTCATACCC TTACTTTTC yTAAATCAC ITGGcAAATA GTTCACaTCG	480
TATATTTTTT GGACATCCAT ACCAAGTTCA TTGATTAATT GTGCGTTC	528

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(2) INFORMATION FOR SEQ ID NO: 714:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 731 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 714:

TTTAAATGGCA TGAAGTCACA GTATATAAAG AATCTGGTGT GACAATCAGT ATGACTAAGT	60
ATATAAAAAA AGAGCAGGTG cGAAATAATG GCGAAAGAGT CGAAATCAGC TAATGAAATT	120
TCACCTGAGC AAATTAACCA ATGAGTTAAA GAACACCAAG AAAATAAGAA TACAGATGCA	180
CAGGATAAGT TAGTTAAACA TTACCAAAAA CTAATTGAGT CATTGGCATA TAAATATTCT	240
AAAGGACAAT CACATCACGA AGATTAGITT CAAGTTGGTA TGGTTGGTTT AATAGSTGCC	300
ATAAATAGAT TCGATATGTC CTTTGAACGG AAGTTTGAAG CCTTTTATGT ACCTACTGTA	360
ATCGGTGAAA TCAAAAGATA TCTACGAGAT AAAACTTGGA GTGTACATGT TCCGAGACGT	420
ATTAAGGAAA TTGGCCCAAG AATCAAAAAA GTGAGCGATG AACTAACCGC TGAATTaGaG	480
CGTTcACyTT CTATcAGTGA AATAGCTGAT CGATTAGAAG TCTCAGAAG AGAAGTGTTA	540
GAAGCAATGG AAATGGGACA AAGTTATATAT GCGTTAAGTG TTGATCATTC CATTGAAGCT	600
GATAAAGATG GTTCAACTGT TACGCTATTA GATATTATGG GGCACAAGA TGACnTTAT	660

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CGAGAAATCA T

731

(2) INFORMATION FOR SEQ ID NO: 715:

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 830 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 715:

15 TTTTAGrGGA AAGCGaATTA GtCaTATwCg CaGCAGATwG aATGATTGaA AAmGaAATTG 60
 aTTTCGATTCC AATTGTAAGA AAAAAAGATA ATCAAAAGTA TGAAGTAATT GGAAGAAATT 120
 CCAAAAACAAC AATAGCTAAG TTATTAGTAG CATTATATAA AGAATAGGTG AGAAGTAATG 180
 20 GAAAAAATTA AAATTATCGT AGCTTCAGAT TCTATAGGTG AAACGGCAGA GTTAGTTGCT 240
 AGGGCAGGTA TTTCACAATT CAATCCTAAG CAATGTAAAA ATGAATTATT AAGATATCCA 300
 TATATTGAAT CTTTGAAGA TGTGTATGAA GTGATTCAAG TGCAAAAAGA TACAAATGCT 360
 25 ATCATTGTTT ATACACTTAT TAAACCTGAA ATGAAGCAAT ATATGAGTGA GAAAGTAGCA 420
 GAATTCCAAT TGAAGTCTGT CGATATCATG GGGCCATTAA TGGATTATT ATCTGCTTCG 480
 GTTGAAGAAA AACCTTATAA TGAGCCAGGT ATCGTTCATA GATTAGATGA TGCATATTTT 540
 30 AAGAAAATTG ATGCGATAGA GTTTCAGATT AAATATGATG ATGGTAAAGA TCCTAAAGGA 600
 TTACCTAAAG CTGATATTGT TTTACTTGGT ATTTGAGAAA CTTCAAAGAC ACCATTATCT 660
 CAGTATTTAG CGCATAAGAG TTACAAAGTT ATGAATGTAC CGATTGTACC AGAAaGTGAC 720
 35 ACCGCCAGAT GGCTTATATy GATATTAATC CAAAGAAATG TATCGCACTT AAAATAAGTG 780
 AAGAnAAATT AAATCGCATT AGAnAAGAGC GACTAAAACA ATTAnGACTA 830

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(2) INFORMATION FOR SEQ ID NO: 716:

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1159 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 716:

50 nGAGAGACAA GTTTAnCATC TAAATGCCG TTTAAACTA CAACTACTTG ACGATGTTAA 60
 ATCAGTGTTT AAnTCTCAA TGACGCAAAA TAGTGATTTT AATGAAGAAA AGAAAGTGTC 120

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	AGAACGTATA AAAAAAATACT TTAATAAGCA ACTCACTGAG CAAATTGCAC CAATCGTTCA	240
	ACAATTAGCA GATTTACATG TCATTATTAA TCCTCAGTTT AACTTTGAAT CAGCTAATAT	300
5	AGAGCAACCA TTATTGCACA TCGATTTCOA CGATATGCTA AATGCATTGC CTAACAAT	360
	AACAAAACGT AAAATTTTGA ATCCAAATGG GCAAAGAGAT ATACATGAAT CAATTGTGCA	420
	AAGTACGTTA GGATTATTAC AACCACAAAT GGGATTATTG AGGCAACAGC TTGAATTATA	480
10	TGTAAAGCAA ATGGCTGTAG AAGCTGAATC GCAATTGAA AGTTTTGAAG CTAATATTCA	540
	AAGCAAATA AACGATTAT TAGCATTTGA TTTAGATACA ACACATTATCA ATCAATTGAA	600
	AGATAAACAT CAACAACCTGA AACTATTTT ATATTAAAGAA AGAAGGAACG TTTTAAATGC	660
15	CTAATAAAAT ATTACTTGTA GATGGTATGG CGCTATTATT TAGACATTTT CATGCTACAA	720
	GTCTTCATAA ACAATTTATG TACAATTAC AAGGTGAACC TACAAATGGA ATACAAGGAT	780
	TTGTGCGTCA TATCTTTTCG GCAATACATG AAATACGCC TACACATGTA GCTGTATTGT	840
20	GGGATATGGG ACAATCAACT TTTAGAAATG ATATGTTTGA TGGTTATAAG CAAAATCGTT	900
	CTGCACCACC AGAAGAATTG ATACCACAAT TTGATTATGT TAAAGAAAT TCAGAGCAAT	960
25	TTGGCTTTGT AAATATTGGC GTTAAAACT ATGAAGCGGA TGATGTTATA GGTACATTAG	1020
	CACAACAATA TTCAACTGAT AACGATGTCT ATATTATTAC GGGCGACAAA GATTTACTGC	1080
	AATGTATTAA TGACAATGTT GAAGTTGGCT AATTAAAAAA GGTTTAACAT TTATAATAGA	1140
30	TATnATTAC ATCGTTTTn	1159

(2) INFORMATION FOR SEQ ID NO: 717:

	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 574 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 717:	
	GATTTAATCA ATGCAGTTGC AGAGCAAGCT GATTTAACTA AAAAGAAGC TGGTTCAGCA	60
45	GTAGATGCTG TATTGGAATC AATCCAAAC TCACTTGCTA AAGGTGAAA AGTACAATTA	120
	ATTGGTTTCG GTAACTTTGA GGTACGTGAA CGTGTGCAC GTAAAGGTCG TAACCCCTCAA	180
	ACTGGTAAAG AAATGATAT CCCAGCAAGT AAAGTTCCAG CATTCANAAG TGATAAAGCA	240
50	TTAAAAGATG CTGTAAAATA ATTITACTTA AAAAGCCCTG AATAAGGGCT TTTTATTTTG	300
	CTTTAATATC TTACAACCTG TACATAAATT GTAATGTTCT TCTAAGTTTT TAATCTTTGG	360

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AACTACAAAA TATACATATG aATATTGaGa TTAATIGTTA GCGTTGaATT TACTTAAAAG 480
 GTAACCATGT CTACTATAGT ATTTTACGTT ATTTAAAAAG ATGAATAATG TAAATGAAGT 540
 5 AAAGGTTATT ATGAGAATTA CAAAAGCTAC ATAA 574

(2) INFORMATION FOR SEQ ID NO: 718:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 493 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 718:

AAGaTATTGA AAmTGMaATG GaGCAGC CCC TTATTTGATA GAAGTAAAG ACATTTAATT 60
 CTTACCGATG CAGGTCaAAT TTTTATGAG AAAAGTAAAG AAATTGtGc ACTGTATGAT 120
 20 TATTTACCAT CTGAAATGGA ACGCTTGAAT GGA CTGGAAA CAGGACATAT AAACATGGGC 180
 ATGTCGGCAG TCATGAATAT GAAGATTCTT ATCAATATTC TTGGTGCAIT CCATCAACAA 240
 25 TATCCAAATG TTACATATAA TTTGATAGAA AATGCGGTA AAACAATTGA ACAGCAAATT 300
 ATCAATGATG AAGTAGATAT AGGCGTGACC ACTTTGCCAG TCGATCATCA TATTTTCGAT 360
 TATACTACCC TAGATAAGGA AGATTGCGA CTTATCGTGA GCAGAGAGCA TCGACTCGCA 420
 30 AAATATGAAA CTGTTAAACT CGAAGATTTA GCAGGTGAAG ACTTCATTIT ATTTAATAAA 480
 GACTTTTACT TGA 493

(2) INFORMATION FOR SEQ ID NO: 719:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1257 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 719:

GCATTGCCAA AACAAACGT TTATATTATT GAGGAAC TAC TGTATAAAAG TAATGAATAT 60
 CAAAATAAAA AATCATATTA CGAAACACTT GTTAACCAAG TAATTGAAC TAAACAGGCA 120
 GATGATTTAA TTAATTGGACT CGCTTATTC GTACAACGCT TAGTCGTGA TCATTTACAC 180
 50 GTTGTGGGTG ATATTATGTA TCGTGGACCA CAACCAGATA AAATTATGGA TACACTGATT 240
 AATTATCAIT CCCTAGATAT TCAATGGGGT AATCATGATG TGCTTTGGGT TGGAGCCTAT 300

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	GATATTATCG AAGACGCTTA TGGCATTAA TTAAGACCAC TGCTTACTTT AGCTGAAAAA	420
	TACTATGACG CAGATAATCC TGCTTTTAAAG CCTAAAAAAA GACCTGACAA ACACGAAACGT	480
5	TTAACTCAAC GTGAAGAAAAG TCAAATTACT AAAATTCATC AAGCTATTGC GATGATTCAA	540
	TTCAAGTTAG AAATACCAAT TATTAAACGT CGTCCAAATT TCGAAATGGA AGAAGCTCTT	600
	GTGCTTGAAA AGGTTAATTA TGATACAAAT GAAATTACAG TTTATGGTAA TACATACCCA	660
10	TTGAAAGACA CATGTTTCCA AACTGTCAAT CGTGATAATC CAGCAGAATT ACTACCTGAA	720
	GAAGAAGAAG TCATGAATAA ACTATTATTG TCATTCCAAC AATCTGAAAA ATTACGTCTGT	780
15	CATATGCTCT TCTTGATGCG TAAAGGCTCT CTTTACTTAC CATATAATGG CAATTACTTC	840
	ATTCATGGTT GTATTCCAGT TGATGAAAAA GGTGAGATGG AATCATTGGA AATTGATGGT	900
	CATACTTACA GCGGCCAAGA ATTATTAGAT GTGTTTGAGT ATCATGTCCG TAAATCATT	960
20	GATGAAAAAG AAAATACTGA TGACTTATCG ACGGATTTAG TTTGGTATTT ATGGACTGGG	1020
	AAATATTCGT CACTATTGGG TAAACGTGCC ATGACTACGT TTGAGCGATA CTTTATTGCA	1080
	GATAAAGCTT CTCATAAAGA AGAAAAGAAT CGTACTATC ATCTTCGTGA AGATGTGAAT	1140
25	ATGGKTCGTA AAATGCTCaG TGaTTTCGGA TTAAATCCAG ATGAAGGACG CATTATTAA	1200
	GGTCACACAC CAGTGAAAGA AATCAATGGC GAGATCCTAT CAAGGCTGAT GGAAAGA	1257

(2) INFORMATION FOR SEQ ID NO: 720:

30	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 400 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
35	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 720:

40	TGAGCACATG ACAGTGCGTG AAAACATTAA ATTTTTTAAA TCACTTTGTA AAAATCCAAT	60
	TAACGATACA ACTATCAACG AATATTTACA GCAATTAAAC TTGATGATA CGTCTGCCAA	120
	AGTATCTACA TTGTCGGGTG GGAATAAAGC TAAATTAAT ATATTAGTAG GTTTACTAGG	180
45	TCAACCTCGA ATTCTCATTT TAGATGAACC GACAGTTGGT ATTGATTTAA AATCTAGACA	240
	TGACATCCAC CAACTACTTA ACATCATGAA ATCTAAATGT TTAATTATAT TAATACCCA	300
50	TCATTTAGAT GAAGTTGAGG CACTTGCGA TGTTTATCAA GTTAATTGGG CCAGGTnCCC	360
	TTTTnTCAA CAGTTTTTGG GGGCCAACCA TGGGCTTATA	400

(2) INFORMATION FOR SEQ ID NO: 721:

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(A) LENGTH: 570 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 721:

10	CTTATTITATA TTATAATATA AATATTTTAT TTTTCAATAC TTAATTTTAA AAATCCCCCTA	60
	TGAAAATGTT GATGAGCTAC ATCTTTAAAT CTTATTATAC ATTGTATATA ATTATATTGC	120
	GAGGTAGTAA ATTGATATTA TACACTTTTG GTTGTGTATG CATCTCACCT ATCTTTTTTG	180
15	CTTTTTTCAA ATAAGAAAGT ATTAAAAATY AATGCCTATA CAGGAACAGA CATGGCTAAA	240
	CTTGATTTAA ATAGCTTGA CGACGAGCAC GTAAAAATTAT TAATAAATGA ATTAATAATAT	300
	CCAGAAACTC ATATCGATGT AAATGAATTA AAAACAATAG TTGCTAGTCG AATAAATGAA	360
20	AGGCAAGAAA TAATAAGTTT TAAGTTAGGA ATAAAGTACT TATTAACAAT AAAAAGAGGG	420
	AACATAGAAA AAGATAGGTT TTCAATTTC AATCATTTTCA AAGATACCTA TCACACCCCTA	480
25	GTTAGAATAG ATATTAACGG TGTACTCAC GATAATCCAG ATGGAACAAT CGCTCCGAAA	540
	AGTCATATTC ACATATATATA TGATAAGTAT	570

(2) INFORMATION FOR SEQ ID NO: 722:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 722:

40	ATTTTAGTCT TAGTGTTGA TTGCATGATG AATGCAGAAG TTACACTGCG AGCCATATTA	60
	GCACCTTCAT TATTGTGTAT AATTGGAATA TTATTGCTT TTAAGATATG TCCAATTAAG	120
	TTTGAAGTCG TTGTTTACC ATTTGTTCCA CTGATAAATA CAATATCATC AACTTGCTCT	180
45	GCTAATTTTC TTAATATATC TGTATCCACT TTTCTAGCGA TTGTCCAGG TAAATCTGTT	240
	CCTCTTTTAC CTACTGCTCT ACTTGCTTTA CGGCGCAATT TCGTAGATG GATTGCCGTC	300
	CACTGTCTCA TGTGTTTCT CctCAAATt CCACTCGCAT CATTATAACA TGACAAGGCA	360
50	ACTTCAAAAA AGTTTCTCAA TCACAAATnG ATACCAAGTG	400

(2) INFORMATION FOR SEQ ID NO: 723:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1113 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 723:

	GATTATATGC TGTGGCAAA ACAATATACC CAGATGAATT TTTATTTTIA GTAATAGTAT	60
10	AACCATGCTT TGTCTTACTA ACTTTGACAG CTTCTAATGA ATTTGAAGCG TCTTTAAGCG	120
	TGGTATAATC TTCGCCGAT ATCCCTTTTA AATTACTCG ATACTTACCT TTAGGCAATG	180
	ATAATCTAAT TCTATCTGGA GCTTTAATGC GTATCGTTAC GGGTGTACA ACGCGTCGAT	240
15	ATTTATAAGT GAGTTTATTT CTTTCTGTG TATATTCATT CACTTTAACA TCATGAGCTT	300
	TATCCGGCGA AAGTAATTCT AAATCCATT CAAAATACAA ATCTTTAAAT TGATTAGAAA	360
	CTGATTTTGG CAACTGTACA GTTAGACCAC CATTATTTTG TTTAACTGTG AATAAATGTT	420
20	TGTAGGAGA TTGCCAGGCT GCACTATTTA ATTTAATTGT TGAATCTGAT AGTAAATTTT	480
	TATTGGCTTT AAAATGTGTA TTAACATCTT TAATATTGTT AGAAAACAAT CCTTGCAACA	540
25	TGTCTGTTC TTTATCTAAT GGAGATTTTA ATTCCTTATT GGAAAAGACC TTATTGTGTA	600
	TATGTGCACT TGGATAATGG ATGGTATTTT TAGAATGAAT CCAACGAAC TTTATTGTCTT	660
	TGTGTTTACA CTTAATTTTA AATCCATATG GTAAGTTGTC ATCATGATC ACTCTAATTC	720
30	GATCATTAAAC ATTCCAAAGT GATAGTAAT TTgACGATgC CAAGTAATCT ATAAGTCTG	780
	TTTTTATCGA TTGCCATATT AATTGGAGT GTCTGTGAT AATATTTTAA AATGTCTCCA	840
	TTAAAAATAC TAGAATATAA TGAAATGCCA TTATAATGAT ATATAAATGG TGAATTTAAT	900
35	GCATAGTCIG ACATATAATC AATGCGATTA AATGAGCTG TTGCATTTTG ATTTATCTTT	960
	TTTATAAGCT GGTTCACATA GTTACTATGG TAATCATGTT GTTCAACGT TGATAATGAT	1020
	TGTTGATAAG GTTTGATTGC CATGTTTTTG TTGTTATCTA AAATGACGAT TTGTGAATC	1080
40	ATAACGATTA ATACTAATAT TGCAACGGTT AAT	1113

(2) INFORMATION FOR SEQ ID NO: 724:

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(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 464 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 724:

	TGCCGTTTAG CAAATCTAG TATCGCTTGA TGATCAGATT CTGAAATTC AGTGTGTACT	60
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GATTGATTAA GTTTATATGC AAGTGCAATG TCTCGTCCAC CAGCACCAAT TACTAATACA 180
 TTCAITTTATG TTACGCCCTT TAAAAATTAG TGTTTAAAAA GTCGAGTGCC TGTGACTACC 240
 5 ATTGCAATAC CATGTTTATT AGCCATATCA ATTGAATCTT GATCTTTAAT CGAACCACCC 300
 GGTGGAATAA TTGCTTTTAT ACCATGTTGT GCTGCAAGTT CAACGTATAT TCCCATAGGG 360
 AAAAACTCAT CAGATACTAA CggCTACATG ATCATTGATT TCAATAGCTC TCTCTAACGC 420
 10 AATTTTAGCA GCACCGACAC GATTCAATTGG CCAGCACTA TACC 464

(2) INFORMATION FOR SEQ ID NO: 725:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1440 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 725:

GTAAAAACA nTATTnAAA TaTATTACCT TATTAGAAA AGTCGAATA TGAGGTGTAC 60
 25 AAATGACGCA AATTTTAATA GTAGAAGATG AACAAACTT AGCAAGATT CTGAAATTGG 120
 AACTCACACA TGAAAAATTAC AATGTGGACA CAGAGTATGA TGGACAAGAC GGTTTAGATA 180
 AAGCGCTTAG CCATTACTAT GATTTAATCA TATTAGATT AATGTTGCCG TCAATTAAATG 240
 30 GCTTAGAAAT TTGTCGCAAA ATTAGACAAC AACAACTTAC ACCTATCATT ATAATTACAG 300
 CGAAAAGTGA TACGTATGAC AAAGTTGCTG GGCTTGATTA CGGTGCAGAC GATTATATAG 360
 TTAAGCCGTT TGATATTGAA GAACTTTTAG CAAGAATTGC TGCAATTTTA CGTCGTCAGC 420
 35 CACAAAAGGA TATTATCGAT GTCAACGGTA TTACAATTGA TAAGAAGCCT TTTAAAGTGA 480
 CGGTAATGCG CGCAGAAATT GAATTAAACA AACACAGATA TGATTTACTA TATCTTCTAG 540
 40 CTGAAAATAA AAACCATGTT ATGCAACGGG AACAAATTTT AAATCATGTA TGGGGTTATA 600
 ATAGTGAAGT AGAAACAAAT GTCGTAGATG TTTATATAAG rTATTTACGA AACAGTTAA 660
 AACCATACGA TCGTGACAAA ATGATTGAAA CAGTTGCTGG CGTTGGGTAT GTGATACGAT 720
 45 GACAAAACGT AAATTGCGCA ATAACGGAT TATTGTTACC ACGATGATTA CGTTTGTCCAC 780
 GATATTTTGT TTTTGTTTAA TTATTATTTT TTCTTGAAA GATACACTGC ATAATAGTGA 840
 GCTTGATGAT GCaGAACGAA GCTCaAGCGA TATTAATAA tTTATTTCAtt CTAAGCCTGT 900
 50 TAAAGATATA TCTGCAATTAG ACTTGAATGC aTCTTTAgGT AA tTTTCaAg AGATAATTAT 960
 TTATGATGAG CATATAATA AATTATTGTA GACATCGAAT GATAACACAG TGAGAGTTGA 1020

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	ATATTTAATT ATTAAGAAC CAATTACAAC GCAAGATTTC AAAGGTATA GCTTGTTAAT	1140
	TCATTCACCTA GAAATATG ATAACATCGT AAAATCATTG TATATCATTG CGCTGGCATT	1200
5	TGGAGTGATT GCAACAATTA TAAATGCCAC AATCAGTTAT GTATTTTCAA CACAAATTAC	1260
	TAAACCGCTT GTCAGTTTAT CAAATAAAAT GATTGAGATT CGACGAGATG GTTTTCAAAA	1320
10	TAAATTGCAA TTAATACAA ATTATGAAGA AATAGATAAT TTAGCAAATA CGTTTAAATGA	1380
	GATGATGAGC CAAATTGAAG AATCATTTAA TCAACAAAGA CAATTTGTTG AAGATGCGTC	1440

(2) INFORMATION FOR SEQ ID NO: 726:

	(i) SEQUENCE CHARACTERISTICS:
15	(A) LENGTH: 375 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 726:

	TGATATTCGG ACTTGGGAGG ATTATTGCGC ATTAAGGATT AACGCAGTAT GAGTCCAAAG	60
25	ACGCGCGACA CTGGAAGAAA GGATTACCTA ATGCCTTATT TACAGTAACC TTGTATGATA	120
	AAGATCGGTT AATTGGTATG GGTAGAGTGA TTGGCGATGG CGGAACGTT TTTCAAATTG	180
	TTGATATGTC AGTTTGAAGA AGTTACCAAG GTCAAGGTTA CGGCATCTAA TTATGGAGCA	240
30	TATTATGCAA TATATTAAAG GTGTGGCTGT TGAGAGTACA TACGTTATCT GATTGGCAGA	300
	CTACCCAGCG GGTAAATTA TATACCAAAAT TTGGGTTTna TACCTACCGA ACCAGATCC	360
35	AGGCGGTGAT GTATG	375

(2) INFORMATION FOR SEQ ID NO: 727:

	(i) SEQUENCE CHARACTERISTICS:
40	(A) LENGTH: 471 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 727:

	TAAAAAACTT AGAGATGAAA ATCATATTAT TTATCTGTTT TTGGGACAAAT TTTTACTAA	60
	AAATGAAGAT CCATGGCATC AAATACTTAA TGATTAGAA GTTACAAATT CTGTGGATAA	120
50	TTTTTTAAGG TCAATAAGTA ATAAGGCCAA AGAAACAAAA AAAAGAGCTT TTATTATTAT	180
	TGATGCGCTT AATGAAGGTG AAGGTAAAG GTTATGGGGA AATTATTTC AAAGCTTTAT	240

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AGATGTGTTA TTACCCAAAA ACGCAATACA AGATAACAAT ATTGTAGTAT TTCAGCATGA 360
 AGGTTTTAGT AAGGAAGAAA ACTATAATCC AATTGTATCT TTTGTGATT TTTATGGATT 420
 5 AGAGCTACCT AAGTTACCTA TATTAATCC AGAATTCAAC AATCCATTAT T 471

(2) INFORMATION FOR SEQ ID NO: 728:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 1750 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 728:

TAGGATGTTT CACCCTGCA ATTGCTCTAA GACATCTACA GCAGTAGAAT ayCCTGTTTT 60
 20 GTCTTTTTTA ATAAAGGTA ATTGTAATGT CTCAAACAAT ACAACACCTA ATTGCTTAGG 120
 AGAATTTATA TTAAATCTT CACCAGCTGC ATCATGGATA TTTCGAATCA AGACGTCTAA 180
 TTTTCTTGA ATTTCTTTT CCATTTCTTC TAAATCATGA ACATCTGTAA ATATACCAAT 240
 25 TTCTTCCATT TCACTAAAA TCTTAGCTAG CGGTAGCTCT AAATCAGCCA AGAGTTCTAC 300
 CTGATTGTAT TCTTCTAATT GTTTATCCAT ATTTGGTTTC GCAAAGTAAA TTGCATCAGT 360
 AATAGAAGCA ACATATGGAT TTAAACATC ATCTTCAGGT ACCTTAAATT TCTTACCTTT 420
 30 TCCATATATA CTCACATCGT CTTTCACAAA ACTTTGACCG TACAATGAAA CAACGTATTG 480
 AACATCACTA ATCGTACGAG ATGGATCAAT TATATAACTG GCCAACATAA TATCGAAAGA 540
 AATATTTGA ATATCAATCC CCAATCTATG TGATGCTACA TATGTTTTT TAGCATCATA 600
 35 TACGACTTTT TTCGAATTCG GATTTTCTAA CCATGAAACT AGTTCGACAT AATTATTTAT 660
 GTCATCGCA TTAATTACAA TATGTTTCTC ACCTGTAAAT aaAGAGAATT TTAaaaATT 720
 40 ATTTCGCAA TAGTACCAC CGCTTAATTC GAAATGGATG CGCGCTTCTT TCAATGAAGT 780
 AAAATCcaAT ATTATCAAAA GACGTTTCCA ATTTCAAATG TCTTCTCTAT TGCACTCTCA 840
 ACGCTtGCTG ATTGatCAAT GTCAGCCAAC AATTGTTTGA ATTCTAACTT CTTAAACAAT 900
 45 TCGATTTTTT CTGTTGTTTC ATCTtGAKGA GTCATTAAAG TATCTTCaAG TTTTACTTCa 960
 ATCGGACTAT CTACATTaAt CGTtGCTAAT TCTTTACTCA TTAATGCATC TCTTTGCTA 1020
 TTTTGAAGTT TTTCTTTTAA CTTTTACCT GAAATTCAT CTAATGTTT ATAGACACCT 1080
 50 TCTACTGTGT CAAATTGGTT TAGCAATTTT ATTGCTGTTT TCTCTCCAAC ACCTGCAACA 1140
 CCTGGTATAT TATCAGAAGT ATCTCCCAT TATCCTTTCA TATCAATAA TTGATTAGGT 1200

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CCTTTTITAG TGTAAATAAT GGTTACATTA TCCGTTGCAA GTTGTGTAA ATCTCGGTCT 1320
 CCCGTAATAA TAATTGTCTG AAAGCCCGCT TTATCTGCTT CTTTACTTAA AGTTCCGATA 1380
 5 ATATCATCTG CCTCATAGTT ATCTAATTCA TAACGTTTAA TATGATAAGC ATCTAATAAT 1440
 TGGCGAATAT AAGGAAATTG CTCACTTAGT TCAGGCGGCG TTTTCTGGCG TCCACCTTTA 1500
 10 TATTCATAT ATTITTCATG TCTGAAAGTC GTTTTACCTG CATCAAACGC TACTAAAAAA 1560
 TGATTGGCT TTTCTCTTT TAAAATCTTC TCTAGTAACA TTGCAAAACC ATATACTGCA 1620
 TTGGTATGAA TGCCTGCTTT GTTGTATAAC AAAGGTAATG CATAAAAGC TCTAAAACTT 1680
 15 AAGCTATTAC CATCGATTAA TACTAATTTA TTCACAATT TAACCTCCAG AACTAATTTA 1740
 TATATnTGTG 1750

(2) INFORMATION FOR SEQ ID NO: 729:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 439 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 729:

AAATTAATTT TAACATCCTT TCAAAATAGT TTAAACGGAT CcTcccAAAA CGTAAACTCA 60
 30 CATCAGTTAC TTGTAACATG CATTTCTCC TTTTITTCAT TCGATATICT AACGGAAGAA 120
 TTATATCATA TTATCGTCAC AGTTTCGACC TCATATAAGT TGTAATGATA GAATGACTCA 180
 35 CACATGTTAT AATAATAAAG AATAACAAGAA TCGAAGGAGA ATAAACATGG CATTAGACAA 240
 AGATATAGTA GGGTCTATAG AATTCCTTGA AGTAGTAGGG TTACCAAGGT CAACTTACCT 300
 TTTAAAGGAC CAACGGTGAA ACGTAAAGTT AAACCAATCA GAATGAACGT GATGATTGAA 360
 40 TTAGAAGTAG GGGAGnATAT AGTTCCTCAT TTATCCAACC GGTCAGGTGG ATTATTGCAC 420
 TCAAATATGC nGnTATACG 439

(2) INFORMATION FOR SEQ ID NO: 730:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 481 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 730:

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AGTTTAGGAT TGATGACAAA GCCATTACGA CCAACAAATC CTAAACCTGC ACGTTCGTCT 120
 ACTGCCCTAT CTGATAATAC ACCCGTATCT ACCATAGATT TGATTTCAC ATCTGGAAT 180
 5 TTAGATTCAA TAAATGCAGC TAACATGTCT AATCGTTTAC GCATAATTGT ATGATAATCT 240
 TGACCCCAGC ATGCTCTAGC AAATAAGCCT CTGCGATCAC CTCTAACACT CTTAGGTGCA 300
 10 CCTTTCAGTT TGTTAGGATA ACCAACTGCA ATTGCTATGA TTGACCTTGC TGTGTGTAAG 360
 GATAATTAG GCTCCGTTGC TAAAGCAATA TCAGATTCCT CAAATCTGA GGCATAACCA 420
 TTTGCATGAT ATGCTTCTAG CTTTGTCTTC AATTCATCAA AGGNTCGGC AGTAGTAAAT 480
 15 C 481

(2) INFORMATION FOR SEQ ID NO: 731:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 828 base pairs
 20 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 731:

GTGATGAAAA ATCTTTTCT ATTGATTGAG AAAATAGTTA TTTATATAGT TTTTAAAGAA 60
 AAAAAGTGAT AATATTTAGC TAATCTAATG AAAATTGATT TATTGGACAA AAAATACATT 120
 30 TTAATGAGT AGAGGAGGCT GCAAWTGGT TACAGAACTT TAAAAAGTAT TTTTCATGAA 180
 CACATGAAA GTAAATGAA GGAAGAGTAT ATTAAGAT TTAATCTTT mGCTTCTTC 240
 35 AATACTAATA TTAATATCAT ACCTATGGAA AATGGAAAAA AAGTTAATGA TTTGGAATAT 300
 CCTCTATCT TTATGGTGAC TAAAAATCTA TCAAAAAAAC AAGAATTAAAT ATCAATTAAT 360
 AGTAGAAAAA TTGATAGAGC ACTTAATCTT TTACCATATG CAGCTAGAGA ACAATATTTT 420
 40 AATGATTTAT TAATCGATGA ATTACAAAGT ACTAATGAAA TTGAAAAATG ATTTAGTACT 480
 AAACAAGAGA TTGCACATGC GTTAAATAC CAAGCATCAG AATTCTTAA GTTCAGAGGC 540
 CTCGTGGATC AATAATAAGA GATAGAACTT AATAAAAAAA TTAAGTTGA TAATGAAGA 600
 45 GACATTAGAG CGATTATGA TAAATTAGTT TCAAAATGAAA TTAACGAACA AGATAAGTTA 660
 GATGAGAGC TATITGTAA AAATTTTGC GGTGTGCATG ATGGGTCAAC GAATAAATAT 720
 ATACATGTTG GGTTACAACC TGAACCAAAA ATGTTTGAAT TTATAGTGTA AATGCTAACA 780
 50 TTTTAAAAAT ATTTTATGTC GCCTCAGCCG TTCAAAATCA TGGCTAGT 828

(2) INFORMATION FOR SEQ ID NO: 732:

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(A) LENGTH: 1622 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 732:

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10 CGTAGTTTTC GAATTTTATG nATTGCATTG GATAATAGTA CCAAGTAAAA GAACTAAGAT      60
   TGTAATTATC CCCCTTAAA ATTCAAGAAT ATATTTTCTT AATCTATCAG CAAGAGGGTTA      120
   TATTTCAAAG TGTTTATTTT TAAAAACAAC TCTAAAAGCC ATTTcATAAT AAwGTTAAAT      180
15 CatTAGaATG TATAAGATT CCaATTAAATA AAAATAGATA AAATGCAATA AAGTCCAAA      240
   TACTTATTAT TATTcATCAC AAATTACGTG ATGCCCTCTA CAACACTAAA TCAAGGATGA      300
   TATTTATTTT ATATACATTA GCATTcATTG TTTGCTTACC CACATTATCC TGTTTAGTCT      360
20 TTTTATAAC TcTAGTCTTG AATGTcATAT TTACAAAGAA AAAAACACTA AAATATTTAA      420
   AACTAACACT ATTTATTcAC TTTGTTCTTT TATAGCACCT TTTATGTTTA TTTTCTTGTA      480
   TTCAATAAAAT AGTATGcAGA TGATAAATTA AAGTAGATAT ATTTGAAGTA TACTATAGAG      540
25 TAAATTATAT TGGGGAATA TGTAAACGAA CCGGTTGATT TTATGTGGA TTAACACTTC      600
   ATAGAGAATA TAATCAAGAA CAAAAACAGT CAATAGGTGT GAATTTTTTT AAAGACGGAT      660
   CTGTTGCTAC TAAAAAAGA AGTATACAAT TCAATAGTTA AACCTTAAAA CAAGAAATAT      720
30 TATTCAAAAT CAATGAATTT CCTATCTTAT TAGTTTTAAC AATATTTATT CTCATAGAGT      780
   TTGTCCAATT AAATATAGAT GATTCAAATA TTTATAAGCA TACAAAGAG CAGTAAGACA      840
35 TTTTCTAATA GAAAAAaACT TTACTGCTCT TTGTACATTA CTCATCAACT ATTGTAAATT      900
   AAATAATAAA TAaCTACCTA TTTTATTATT CAGCTAAAAA AGTCTCTGCT AAATATTTTG      960
   CTGCGCCATC CTCTTCATTc GTGTATGCGG TTACATCTGA AGTTAATGCT TGGATTTCAG      1020
40 GCGGTGCATT TTTCATAGCA ACTGTATAAT GACCaaATTC AAACATTGCT CTATCAITGT      1080
   CGCTATCTCC AATAACTAAC GTTCTTCTT GATGAATACC AAAATGTGCA ATCAITTTCTT      1140
   TAATGCCTGT ACCITTATCA GTTTGATAAG CCATTGTTTC CGCATTAAAT CTTGATGAAT      1200
45 TTGAaACACT AATCTGTAGT TGCACATGAT TTTGCTTTAA TTCATCTCTA AATGCTGTTA      1260
   TTTTTTCTAA ATTAGAaCTG AATAGATAAA TTTTGAATA TTCACCTTCA GGAaACTTTAG      1320
50 TTACCAaATC TATCTTACCA GCAAGCGCAT CTGTCTTGA AGaCCATTCA CTATGACTTA      1380
   CGCCATTAAT AGGATCTTGA CTAGGAATCA TATCTCGCAT CCATGTTTCA TCTTCTTTTA      1440
   AAGAAaCTCT ATTACCTTCA AAAGGAATA CCTCATAATA AATTGTTGG CGCTTAGCTA      1500

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CTACTTCTCC AATTGTTCCA TTGAACTAA TGATGCCATT AACGCAAAA TCTTGAGGTA 1620
CA 1622

5 (2) INFORMATION FOR SEQ ID NO: 733:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 472 base pairs
(B) TYPE: nucleic acid
10 (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 733:

15 AATGCCAAT AAATCCAAAT TCTTTTAAAG AACAGAGTG CCCAAGTTAT TGCTGATCGT 60
TATGCCAGAT AAGCATATCA ATGATAAITA TGGTTTAGAA AGAATTTCTA AGACAAATCA 120
20 TGGATATAAT TATGTGTATT CCAATGATAA TTCAACTAGT AAGCAACATG TAAGTATTTT 180
AAATCAAGGC ATAATAACGA AATAATAGAT GGAACAGTGT ATTCTAATTG GATATACTGT 240
TTTTATTTTG CAATAATTTA ATTTAAAAAG GTGAATTCAA CTATAAAAAT GATGTAAATG 300
25 TTATGTCAA ATCAACCAAT CCGTAATGTA TTTTAAATG TTAATATAGT TCTGAAGAAG 360
TATAAATGAG GTGTGAAAT GGCTAAAAAT AAGAAAAAG ACGCGATGCG TATGCTTGAT 420
CGTGCAAAAA TTAATACGA AGTTCATAGC TTTGAGGTAC TTAAAGAACA TT 472

30 (2) INFORMATION FOR SEQ ID NO: 734:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 519 base pairs
(B) TYPE: nucleic acid
35 (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 734:

40 CATAGCCCCA AATTTTTTCT ATTATTGTGT CACGAGTAAA GATTTGCTTA GGACGTGCTG 60
CAAGCATAAA TAATAATTGA AATTCCTTGT TCGGTAACGT CATCGTTTTA TTAGATACCT 120
45 GGAGTCCCAA ATAGGATTGG TTTAGCGTTA AGTTGCCAAT AGTCATTCTT GAATTTGAAT 180
TGATATTATA TCGACGTAAT ACAGCAGCAA TTCTAAAAAT AAGTTCCTTA ACCTCAAGAG 240
GTTTGGTTAC ATAATCGTCA GTACCGCTTA TAAACGCACG CTCCTTGTC AATAGTGCAT 300
50 CCGCGCTGTT TAACATAATA ACTGGTATAT CATAATCATT TTTAATGTA TTACATAATT 360
GAAAGCCGTC CATACCATCC ATCATAATAT CTACCACTGC AATATGCaA CGCTGTTTTT 420

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GTTTGTGThAA ATGGGCTAGC TATAATAATT TAGGGGATT

519

(2) INFORMATION FOR SEQ ID NO: 735:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 735:

ACTTGAAAC	GATAACAGT	ACTTCCAGC	TACACATTGG	AAAGCTATAA	ATGGGATACC	60
TTATGCAGGC	AGTAGTGATA	TTGATGGATT	GCCTCAAGAC	GGTATCATTT	CGGTAAATGA	120
TAAAAATAAA	TTAGATAATT	TAAAAATAGG	CGAACAGGAA	TTATTCAAAA	TAGCATTGTA	180
CAGAAATCCC	CAAACGGTAA	ATTGTGGAAA	ATAACAGTTG	ACGATAGTGG	GAAACTTGTT	240
ACAGTGCTAT	TTTATTAGAA	AGGAAGGTGC	ATTATGGAAA	ATTTGTATTT	AATAAAGGAT	300
TTGGGAGCTT	TAGCAGGTCG	AGATTATAGA	GCTAAGGAAA	TACAAAACTT	ACAAGGAATA	360
GGCATTGCGC	TGGGCTGACC	ACCAGGGTTT	AnGTGnCCnC			400

(2) INFORMATION FOR SEQ ID NO: 736:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 780 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 736:

CITTTTTTATT	GA AAAAGTGG	TAITTGATTA	TCTATTACT	ATTTATATTA	GCGGCACTCC	60
TTATTACATT	AACGACAATC	CAACATGTAA	CAGAAGATGA	CAATCATnTT	AATATAGGTG	120
TCGTAGATAA	AGATCAATCA	AGTGAACGA	AATTAATCTT	AAACTCTATT	GGTAAAGGGA	180
GTAACCTAGG	AAAAAACGTG	AGCATTAAAG	CATATGATGA	TAAGCAAGCA	CATACTTTGT	240
TAAAAAACA	TAACTTCAA	GGCTATTTTG	TTTTTGATAA	AGGTATGACC	AAGGCATTTT	300
ATAAACCAAG	CGAACTACCA	ATTTAGTAT	ATACATATGA	TCAACAATCC	ATGAAAAGTG	360
TCGTGCTACT	TCAGCTAACA	GATTCGTGTT	ACCAACGTCT	TATGCGATCA	ATGGGTGGCA	420
TCTTAGCTTT	TCAAGACTTA	GCACCGAAG	CATCACATTC	TGACAGTATC	AATGTTATGA	480
CTGATTGTCT	GATACAGGA	TTAAACCGTT	CAGGTGCatT	TAACCTAGAA	CCGATTCATT	540

CACTATCTTT ATTTACAGTT TTGAAAATGA ATCAAGATAC TGTATTGAAA GCGCGATTGA 660
 AAATGTTTCA TTTTCTTAAA GAGCGTTTAT TAATCATTG TACGTTGATT ACATGGTTTT 720
 5 ATACTATGTT ATGGGnSTAT CGnTGGTGTA GTTTGGAATG TGGTTCAGTA TTCCGAATnA 780

(2) INFORMATION FOR SEQ ID NO: 737:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 946 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 737:

TATTTAATTT CTnATnTG GTTTTTAATT nTAAGATGAC CATAAATGAA TTTCTCTGCG 60
 20 TGTCAATAGAA TTAGAGCAAA ATACGAGCAT AAATTTAACT AATTCTCTGC TTGTCTTATA 120
 GTCTTGATTG CCTTGTA AAA ATGTTAGTAT TAATTGCTTC ATCGTTTCGA ATTGTGTGT 180
 TGAATTAATA GCGATTGCTA AACCTATATT TTTTCGAAA AGCTTTTCAA AACATCTATT 240
 25 TAACAGGTTG TAATTGTTT GCTAATCTC AATATCGTGA ATATCGTCAA TGAAAACGAC 300
 AGGTTTGTG AAGTGCTCAA AGTTAATATC GTAATATTCA TTGAAAAAaAA ATTGAAATAG 360
 TTCATTGAAA TTAATAAATC GAACAAATAC TTTGGCAGCG TGACTTCGAT CTTTCGGATT 420
 30 AAAATCATCT ATATGAATAT CTGTGTATT TGTAGCCAGT TGAGCTGTTA AATCAATTGT 480
 TGAAATTAAC TCAGTGAATT GTGATACGTT ATCTTGTTGG AAGTGTAATT GTGGTGGTTC 540
 AGTAATCTTG GAAACGAGTG AACGGAAGTG TTTAGGACTA AAATGCAAGT AATCTTAAA 600
 35 TTGATTTGCA AAATTTGTAT GACTGTTAAA ACCGGCCAAT TCAGAAACAG TTGTAATAGA 660
 ATGTTTGTGA GAAAGTAATA AATTGATGGC GTTAACAAGT TTAATACTTG TAAATAATC 720
 TTTAAAATTC ATACTCAAAAT ATCGAACAAA AAGATTAGAA CAATATGATT CAGAGATGTT 780
 40 GCAATGCATC GCTATATCTT TTAAGACAAA GTGCGCATCA ATATKGTCAAT GAATATAGTT 840
 TACACAGTCT ATGAACACCG GATTGCTTAA AGCAATATTT GGTAAATATT CATGATCTAT 900
 45 TCTTATAAAA GCTTCTTTAA GTAAAGTGTC TATnACTT TGACCT 946

(2) INFORMATION FOR SEQ ID NO: 738:

(i) SEQUENCE CHARACTERISTICS:
 50 (A) LENGTH: 397 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 738:

TTTATTGTAT GATGTACTAA AGCAAGATGA AAGATTGTGTT ATTGTAGTTC AAGCATTAGA 60
 5 AGAAAAGAAC GGACAATTAT TAAAGAGAAC TTAAAGGGAA TATCCCGGTT TAAACCATAA 120
 ACAATGAAT GATTATTATTA TGCACTTAAA GGAATTATTT TCCGAAGAAT CATTGCTGA 180
 10 AAACCAATCA GCGTTACAGT TTACAGTTTA TACAAATTTA GATTATACTG CTGACCAAAT 240
 ATATGCTCAT GTAAAACGTT TCAGAGGTAA GCATGACTGG ACACAAACAG CTAATAAATA 300
 TCAAGATGCT TGCAGTGGAT TkTAAcmATT AATGtTAGaT gTcmCyGcAT TTTTaATGCC 360
 15 ATTCGGTAAT TAATCCGGAT GGTCCAATTT AATTAAC 397

(2) INFORMATION FOR SEQ ID NO: 739:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 915 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 739:

CAAGGTATTT CATTTGACCC ATTCACACCA TTAATAGTGG CAGCAGCATT ATACTTTGTC 60
 30 TTAACATTTG TACTTACAGC CATTATGAAC ATGATTGAAG GGAGATTGAA TGCCAGTGAT 120
 TAAATAAACC AATCTTAATA AAGTTTTTGG AGATAATGAA GTTTTAAAAA ATATCAATCT 180
 TGAAATCAAT CAAGGGGAAG TAGTAGCAAT AATAGGTCCA TCTGGTAGTG GTAAAAGTAC 240
 35 ATTGTTAAGA TGTATGAATT TATTAGAAGT ACCTACTAAA GGTCAAGTGA TTTTGAAGG 300
 CAATGACTTA ACGGAAAAAG GGACACAAGT AGATAAACTA CGTCAAAAAA TGGGTATGGT 360
 ATTTCAAAAC TTCAACCTAT TTCCACATAA AAAAGTTGTC GATAATATTA TTTTAGCTCC 420
 40 TAAATTATTA AAGAAAGATA ATAACGATGA ATTACATAAG GAAGCAITGT CGTTATTAGA 480
 TAAAGTGGGA TTAAGAAGAA AAGCAGATGT ATATCGAAT CAATTATCAG GTGGTCAAAA 540
 45 ACAAGGGTA GCAATTGCAA GAGCTTTAGC AATGCATCCA GATGTTATTT TATTGATGA 600
 ACCAACTTCA GCATTAGATC CTGAGGTAGT TGGTGATGTA TTAAGTAA TGAAAGACCT 660
 AGCCAAGAAA GGTATGACCA TGGTGGTTGT GACACATGAA ATGGGATTGG CCAAAGATGT 720
 50 AAGTGACAAA GTCATATTTA TGGCAGATGG CGTTGTCGTA GAGTCAGGCA CnCCAGTCGA 780
 AATATTGAA CAACCCGAAC ATGAAGAAGC ACAAATTTTC TTAGCAAGAG TATTATAACA 840
 55 ACCTAACGAG GCTTGAATAT ATGATACGCA CCACAAAGTT ATATCATATA TTCAAGCTTT 900

(2) INFORMATION FOR SEQ ID NO: 740:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 435 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 740:

AGTAAATGCG ATGTGTCATG GAGGCTATAG CAATGAGCAA TAAAGCTTGG GCGGCTAGAT 60
 TTGAAGTACA ACCTGAAGAG TGGGTTGACG ACTTTAACGC ATCCATTACT TTTGATCAAA 120
 CGCTCATAGA TCAAGATATC GAAGGCAGCA TTGCACATGC AACTATGCTT GCGAATCAAG 180
 GCATTATTAG TCAACAAGAC AGCGAACAAA TTATACAAGG ACTAAAATCT ATTCAACATG 240
 ATTATCATCA AGATCAAATT CAATTAGTGT CATCATTAGA AGATATTCAT TTAATATTGT 300
 AACATGgAAT TAATTAAACG TATCGGTGgA TGCTGGTGGT AAGTTGCATA CTGGACGCGT 360
 AGTAAACGAT CAAGTTGcAA CAGACATGCA CTTGTACACT GAAGAAACAA GTGCAAGhnn 420
 TCATCGCAIT GGATG 435

(2) INFORMATION FOR SEQ ID NO: 741:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1198 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 741:

AATATCATAA CCAAAGCTTG TCATTACTTA TATGTAAGA TTAGAGGCTA ATTACATAAT 60
 CCTAACTTAT TTAACAGGAA GTCATGAAAA CTATATTACA ACTAAAAGTA TAACCTTCCA 120
 TCACCAAAGT CAGAATTTAT TGAACACTC AACTGATAAT ATAGAAGGCT AATTATAAAA 180
 ATACCTGGCG ATTAATAAAC TGTTTCCGTT TTTTAGCACT TAATATATTT AAAAAGACAA 240
 ATAGAGCCCT TTCAGGCTCT ATTTnCTGTA TCCTTAACAA CAGAAGCTGT TAAACTACC 300
 CGTCTTTTCA CAACCAaGc TaCAAAAaag aTgGCTAGTT ATTCTTTCGT CACCGCTGA 360
 ATCATTAGTG TTGTTATTTC CTTTAACTTG CACGCTAAa TCAAGAACTT TTTCAAaGA 420
 TaAAACCCCT TATTTAAAGG TTGAAGTTAA GACCCcTTCA ATTGTCAATAT TAATCATTAC 480
 CACACAATAA ATCAATGAAT TTAATAATAA TTATTGTGTA TTAATTGTGA AATCGTCATT 540

	TGAATATTTT TTGTTAACT CTAAATTC GGGTTAACT TCCTCTATTT CTAACAGTTA	660
	TACTCCAGGA TTAGTTTCTT TAGAATCGT ACCGATTAA TTAACAGTAT GGTTTTGCCA	720
5	GTCAACITCA TAAGTAGATG TAAACGTTAC TGTATTTTGA TnTTTGTAGT TATTTCCAAC	780
	CCAGTGTAGT CGATTCCATT GATTAGTATA TCTATCCATT TCTCTTTGGT AAGTTACTTT	840
10	GATTTTAGAT TtTTTGTAT CATTTTGT TTGAGAAAAGT ACGCTTATAA ATTCTGGGTT	900
	AAAGTTACCA CGCGCCAATA AAGGCATTGT ATGTGTGGC AAGAAATTTT GACCAGCATT	960
	TGAACTACTT TGTCTACCAC CTAAAAACAG TTCATTACCA TATGTTGGGT CATAACTATC	1020
15	TCTACCATAT GGTCCCCAAC CATTATTCAT AATTTTGTGC GCCTCAACAC CCCAGCCAAT	1080
	TGATTTATGA TTTGTTTTC TATCAATCGT AGTTCGTAA CTTTCTTGTT TATAATTTAT	1140
	CGTTTCTGAA AATGATTTTG ATCCATTAA TCCACCTGAT AAGCCATTAG ATATATTA	1198
20	(2) INFORMATION FOR SEQ ID NO: 742:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 818 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 742:	
	GTGGCATATn CAAACTACTA CTGAAAGATC AATTACATAC GTACAGATTT TGCAAAATGA	60
	TCAAGATTAT CCAACAATTT TTAGATGAGA CAAAACGTAA ATCTGTAAAT AATTcAGATG	120
35	TTAATGTAAC GGTAAAAGAT AGAATAATGA CTTTATcAAC GTGCGAAGAT GCATATAGTG	180
	AAACGACGAA AAGAATTGtT GTTGTCGCAA AAATAATTAA GGTAAAGTAA ACAGAAAAG	240
40	GGATAATTAT GAAATTTATG GCAGAAAATA GGCTGACGTT AACaAAAGGA ACAGCAAAAG	300
	ATATTATAGA ACGATTTTAC ACGAGACATG GGATTGAAAC ATTAGAAGGC TTTGATGGCA	360
	TGTTTGTTC ACAACTTTA GAACAAGAAG ATTTTGATGA AGTGAAATTT TTAACAGTTT	420
45	GGAAATCAAA GCAAGCTTTT ACGGATTGGT TAAATCTGA TGTCTTTAAA GCAGCGCATA	480
	AACATGTTAG AAGTAAAAAT GAAGATGAAA GTAGCCCGAT TATAAATAAC AAAGTAATTA	540
	CATATGATAT AGGCTATAGT TACATGAAAT AATTGAATTT AAAGAGGTTG CAGTACTTGT	600
50	TATGACAATT GGTATTGTTA GCTTTGTAA CGACCATACA TGATACCGAT GATGGTCGTT	660
	TTTTTAATGa ACACAAACAT GCTAACACAA AATTGCTAAA ACATAGTTTG aTTTGAATGT	720
55	GcTTTGGAA AATAATCATC CatTATATCa TtTGgATTn TATTTTGGAA GAAGAAAAGA	780

(2) INFORMATION FOR SEQ ID NO: 743:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1209 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 743:

	TGCTGGTAAA TCTTCCCTTA TCAAGTCTTT AATTGGTGAA TTTAATGCTA CCGGTACTAA	60
15	ATTGTTATAT AACAAACCTA TACAACAACA ACTGCAACAT ATTACATATA TTCCACAAAA	120
	AGCACATATT GATTTAGATT TTCTATAAG TGTGGAACAA GTGATTTTAT CAGGTTCGTA	180
	CAAAGAAATT GGATGGTTA GACGACCTAA TAAATCAGCA AGGGATAAAC TCAACAGTT	240
20	ATTAAGCGAT TTAGAATTAG AATCTTTACG TCATCGACAA ATTTCAGAAT TAAGTGGTGG	300
	ACAATTACAA CGTGTGCTAG TAGCAAGAGC ATTGATGTCC GAAAGTGAAG TTTATTTTCT	360
	AGATAGCGCC TTGTGCGGAA TTGATTTTAG TAGCGAAAAA tTAATCATGA CAAAAATcGA	420
25	GAACtTAAaa CAACAAGGAA AACTTATTcT TATCATCCAC CATGATCTAT CAAAAGCAAA	480
	GCAATACTTT GATCGCACTA TTCTATTAAA TCAAAACATTA CGATACTTTG GTGATAGTGA	540
30	AGAGGCTATG AGTGTCACCT GCTTAAACGA AACATTATG AGTAGCACTG ACTGTAGTGA	600
	CCCTAGTCAA AGGAGCAATA TAACATGTTA GAGTTGTCTG AACATTATTT TACATATCAA	660
	TTCTTGAATC GAGCATTGAT AACTTCAATT ATTGTAGGGA TAGTTTGTGG TACAGTTGGT	720
35	AGTTTAATTG TATTACGTGG TCTTTCATTA ATGGGAGATG CAATGAGTCA CGCAGTATTA	780
	CCTGTTGTGG CCTATTCATT CTATTTTGGT ATTCCAATGT TTGTAGGCGC ACTTATAACT	840
	GGTATGATCG CAAGTATTTT TATCGGTTAT ATCACATCTA GTAGTAAAAA GAAACCTGAC	900
40	GCCGCTATTG GAATTAGTTT TACCGCTTTC TTAGCTTCGG GGATTATTAT TATTAGCTTA	960
	ATAAACACTA CGACAGATTT GTACCATATT CTGTTTGGTA ATTTACTGGC AATCACAAAT	1020
45	AGTGCATTTT TAACAACATAT TGTGATTGGT TCAATCGTCC TTATTCTAAT CATTATTTTC	1080
	TATCGTCCAT TAATGATTTT TACATTCGAT CCAACGTTTA GTAGAATGAG TGGTCTAAAT	1140
	ACGACGTTAT TACATTACTT TGTGATGTTG tTACTCTCAT TAGhAACAGT AGCAAGTAtT	1200
50	ChAACGTA	1209

(2) INFORMATION FOR SEQ ID NO: 744:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 675 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 744:

CCGCTTTCG TAAACCTAAT ATAATACGAA ATTTTCGTAT TGTC AACATT AAATACGTTT 60
 10 TTTTCGTAA AAACCTTACT ATGATATGAA AATTTTCGTAT AATAAGAAAA AAGGAGGTAA 120
 GTAATATGAA CAAAGAmAGm AATATTATTA TAGCCAAAAm CATTAGAAAA TTCTCAACG 180
 ATTCAAATAT GTCTCAAAG AAACCTGCTG AaCTCATTAA CATAAAACCA TCTACTTTAA 240
 15 GCGATTATTT AAATTTACGT TCCAACCCCT CTCACGGCGT TATACAAAGG ATAGCTGATG 300
 TTTTCGAGGT TGGTAAAAGC GACATAGATA CTACATACAA AGACGATAAC GACATCACTT 360
 CCATATACAA CAAACTCACA CCTCCCCGCC AAGAAAACGT ACTTAACTAT GCAATGAAC 420
 20 AATTGGAAGA ACAGAATTCT AAAGGAGATA ACGTTGTAGA TATTAAATCA TATAACAGG 480
 AGAAAACTCC AGTTAACGTC AATGGTTGCG TCTCTGCTGG TGTAGGAGAA CGTTTACACG 540
 ATGAAACGCT ATTTACTGAA ATGGTTAAAG GACCTATCCC CACACACGAT TTAGCGTTAA 600
 25 AAGTAAATGG TGATTCTATG GrACCTATGT TTAAAGATGG CGAAATCATA TTGTGGGAGA 660
 AAATCACAA TnGA 675

30 (2) INFORMATION FOR SEQ ID NO: 745:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 924 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 35 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 745:

40 CAGGTGTCAT AGTTGAACCT GGLGGTTTTG GACTAATCGT TAAATCATCA ATTTGTGTC 60
 TCCAAGGTG GAATTTACTG CTTGTGTCT CCAGTGCCT GAAAATACCT TTATCTTGAA 120
 45 ATAAGTCAAC TAACTCTGG ATACCTTTAA TTAATGCTGG GTTACCACCA GAAATTGTAA 180
 CGTGGTTAAA TAAATCGCCA CCAATTCGTT TTAATTCATC ATAAATTTCT TCAGCGGTCA 240
 TGAGTTTAT ATGCGCTTTA GCACTACCAT CCCAAGTAAA TGCAGATCA CACCAGCTAC 300
 50 AGgATaATCA CATCCAGCTG TTCTCAGAAA CATCGTTTTT CTACCGATTA CTCGACCTTC 360
 ACCCTGAATG GTTGGACCGA ATATTTCGAG TACAGGAATT TTAGCCATTA GTTACACCTG 420
 55 TTCTTTTGGT CTAATACGA CATAACTTGT TGGTGTCTT CTACAAATA CTTGAATACA 480

	TACGATTTCa GTTGAAGGGA TTTTGTITTT AAAAGCAGGT AAGTTATTTA ACAGTTGATG	600
	GTCAAATTIA CGGTGTATCA TCTTTTCAA ATGGCTAAGG TTCACTAAGA AGCCAGTGTG	660
5	ATCTAGTTIA TCACCGACAA TTGTTAAaya CAAAGTAAGT ATGACCATGG ACATTTTGAC	720
	AAATACCTGC TTCTTCACAT GGAATGTGAT GTGCAGCCGA AAAATTAAAA TCTTTATTTA	780
10	ATTGGAATTG ATATGGATGC GTTGACTAG GATAGATTGG TTGTAACATT TTAAGCGCT	840
	CCTTTACTTT CAAGATATTG ATTTAGTCCA CGTTGACGTA AATGACAAGC TGGACATTCA	900
	CCACAGCCAT CCCCATGAT ACCG	924
15	(2) INFORMATION FOR SEQ ID NO: 746:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 971 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 746:	
25	ATCTTTTGGG TATTTCTIAT ATTAGCTGTT GTTTCCTTAG TATTATTAG TTTTGCTGTT	60
	GGTGCATCAA ATGTACCAAT GATGATTTTA ACATTTATAT TACTCGTTGC AACCTTTGGA	120
30	ATTGGATTIA CTACAAAGAA AAAATATCGA GAAAACGATT GGCTATAAGT TATATCGACA	180
	ATAACACGCG TTGATTTAAG ACCACACATG TTCATGATGA ACATTTAACT GGTTTTATAT	240
	TGGCGCGTGT TTTTATTATT TAAGGTATAA AAGCGTAATA TGTACCTAA TTGTTAGGAC	300
35	TACATATTAC GCTTTTGGTA ATTATTTTGA TTTTCTTTTA AATCGTTGTT CATGTAATTG	360
	TATTAACGCA TCATGGTGGG GCTCTAAaTA ATCATtGCTA ATTcTTGATG GAGACcmCGA	420
40	TTtCCAACTA rGATkGAATT kGGACcmCTA ATkGTTAATG GtctcCTAG TAAATTGGAA	480
	GCTTGTCAT TaCTTCcATA TAAaLAACCA ATCCGCCAGC AAAtCCcAt GGtKGAATC	540
	TTGGCGTCAT ATATGCTTCT AAaTTACCTG TAGCAACTGA AACGATTCA AGCGTCGCAC	600
45	TACCATATGC CCTTGCACTT CTAGAATCAT TAACAATTTT TTTAAAGATT TCTCCTAAAA	660
	TTGGTTTAGT TAACCAGTTC GGATTGATCC CAATAATGCT TTGCTTAGA TTAGAATCAT	720
	TCAATGGTTT CAAGGGTTGG CTACCACGAT ATGCACCTTC CCTACTTTA GCATGATATA	780
50	AGACATCAGC CATAACATCA TATACAAAAC CTGCATAAGG TTTACCATCG ATATAAATAC	840
	CAATGGAAT TGCGAAATTT TCTTGTTGAT GAACAAAATT CAATGTACCG TCTATTGGGT	900
55	CAACAATCCA TACCGTACCT TTGGAAGTAT CGATGTCATG ACCATGCCCT TCTTCACCTA	960

(2) INFORMATION FOR SEQ ID NO: 747:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 865 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 747:

TCTCGTCAC	TGTACGTTGT	ATTGCGGCAT	CATCCATTAT	GATACGTICA	GACATATICT	60
CACCCCTTCA	AAATTAGAA	ACAAAAACC	TCATGTCITT	AATATCGACA	TGAGGTTTAG	120
TATATACAAT	CAGCCTATTT	ACATAGAAGA	ATCGTAGTAT	TACTACTTAT	TCTTGCATAT	180
GTGAAAGTGT	TATGATCATT	TTAGTATATA	TCTATATTTT	CATGTCCTTG	ACGTCTCTCT	240
GGACGCTCAA	TTAAAGACTC	TITATGTTGT	ACTTAAACTG	TTATAAGGAT	AATACTAATC	300
AGGCGCTTGT	TCAATCTATA	TTGAAAAATT	AACCATACTC	AGTAAAAATG	TTAACCCTTAA	360
TCTATTTTAT	AATGTGTTTT	CATTTAAAAA	AAACGAAAAAC	GATAAACACT	TATAGTTTAC	420
ATAATAATGT	TATCGTAATT	ATAGCAGCAC	ACAATTATGC	ATCTCTTTTT	CGAATTGTAT	480
CTAATAAATC	TTCAAAGTCT	TGTGGTAATT	CAGCATGTCT	TTCAATATAT	TCACCTGTTA	540
CTGGATGTTT	GAATCCAATA	AGTCCAGCAT	GTAGAGCTTG	ACCACCAATA	TCCAATGTCT	600
TTTTCGGTCC	ATACTTTGGA	TCACCAACTA	ATGGGAAGCC	AATATATTTC	ATGTGAACAC	660
GGATTTGATG	CGTACGTCCT	GTTTCAAGTT	GACATTCAAC	AAGCGTATAA	TCTTTAAAAA	720
GTCTAGTAC	GTTAAAAATG	GTCACTGCTT	CCTTACCATC	ATCAnCAACA	GCCATAGATT	780
GAGATCATT	TTTGTCTTCA	CCAATTGGCG	CATCGATTGT	ACCGTAATCA	TGAGGAATAT	840
TCCCGTGGAA	CTAAAnCGAT	ATAGT				865

(2) INFORMATION FOR SEQ ID NO: 748:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 818 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 748:

ATAACATTGT	GGAGCCTATG	ACATTGATTT	ATGTCCTCGT	CTCAATGTT	CTTGTAATAA	60
AACATAAGTAT	AGTTGAATTT	TAAGTTAAAA	AAATTGTTTT	TGCAAAAAATA	AAATAATCCA	120

	TTTTAGGTTT	TTGCGCTCTA	AAAATCCTTG	CGATATTAGA	GCGATGTCTA	ATTATCAATA	240
	TGATTGAAAC	TAAGAACTA	ACGACTAATA	AAATATAGTC	TTGAATGATA	AGCGAGCCAA	300
5	TCACACAGCA	AATTGCTGCA	ACGATACTTG	CTAAAGAAAC	ATATTTAAAA	ATCTTCAATA	360
	CAATAAGAA	GATAATTGCA	AGTATTAGTA	AAAGATCGG	ATTGACTCCC	AAGACGACAC	420
10	CTGCACTAGT	TGCAACAGCT	TTGCCACCTT	GGAATTTTAA	ATAAACAGGA	TAAACGTGTC	480
	CAAGTATAGC	GAATAAGCCA	ACAATTAAAC	CATTGTGAAA	AAAAGTACTA	ATAGGCCCAT	540
	CTGCGTGAAC	TGTAAACCAT	AAAGGGAAGA	AAACAGTTAT	GAACCCCTTG	AAAATATCTA	600
15	GAAATGTTAC	CAAGAATCCT	GCAGGACGAC	CTAATCTCT	AAAGCTATTA	GTAGCGCCAG	660
	TATTACCACT	ACCAAAATTGT	CTAATATCTT	TTTTGAAAAA	TAATTTTCCA	ATTACGAATC	720
	CTATTGGGAA	AGCGCCGATA	AGATAACTTA	GTAGTAACAT	GACGATTATC	ATCATAAATA	780
20	TTCACATCC	TTTAATATCT	TAGGACTATT	TTATCATA			818

(2) INFORMATION FOR SEQ ID NO: 749:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 971 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 749:

	ATATCCAATA	ACTGTTCAAT	GTCTTGATAT	TCCTTAAATG	TTTCATAATG	CTCATTAGAA	60
35	ATGACAATTT	CAAGCAACCA	ACCCGTGCCA	CTTTCCTCTT	TATTAATTAT	TACGCCATCT	120
	TCTAATTCAT	ATTCTATAAT	TCTGCCGTGT	TCATTACAAA	TTTGAAACCT	TACTGCTTTA	180
	AAAGTTTTCA	TATTCACACA	TCCCATTAGT	TTAATATTTA	TGATTTTGA	ATTATTTAGA	240
40	AGATTTAAGG	TCAATTCATG	ACTAATTTCT	TTAAATATAA	CAAAATACGA	GATGCTATAG	300
	CTATTAAATTA	TATAAAATTT	GcCATTTTGA	CCATTTTAA	GCTAGTAATT	AAGATATAGG	360
	CATAGGAGGT	GAATCACACA	CTACATGCTA	AATAAAATCG	TAATTGTCGG	GAGCTGACGA	420
45	AAGACGCACA	AATATTTGAA	AAGGAGGATA	GAAAAATTGC	AACGTTTTGT	GTTGCAACGC	480
	ACCGAAATTA	TAAAGATGAA	AATGGAGAAA	TGCTCTGTGA	TTACTTATTC	TGTAAAGCAT	540
	TTGGCAAGTT	AGCTTCTAAT	ATAGAAAAAT	ATACTAATCA	AGGTACATTG	GTTGTGTATA	600
50	CTGGTCAAAAT	GAGATCAAGA	AAGTATGATA	AAGACGGACA	AACACACTTT	GTCAGTGAAT	660
	TATATGTTGA	AACAATAAAA	TTTATGTCCC	CTAAATCCCA	AAATAATGAA	ATTCTCTCAG	720

TCCAATTATC CTAACATCC TTAATATACA TTTAATCCAT CCTAAATTTT TTATAGATCT 840
 AATTAACTTG AAATATACTC ACTTAAAAAC GACTTACATG ACCTAGTACT GTTGGTAAGG 900
 TCGACTTTTG GTGTAGTTTT CCTAATAGAn AATAGACnTA GGTGGCCAAA CCGATTACAT 960
 AAAAAATTGC C 971

(2) INFORMATION FOR SEQ ID NO: 750:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 832 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 750:

ATAGATTACT CTTTGGATCT GTAGATCCTA CTGTAACGAC ATTGTCCATA GATGCAGGAA 60
 CATCTTTCAC TTGCCATTA CCTTGATATT CACGCTGTAA TTTAGTTTC TGTTTGTCTAT 120
 TGACATCAAT ACCATCAITA CCAGCTGCAG CAACAACGAT AGATTTTTTC TTCTTGGCGT 180
 AATTGATTGC TTCTGTAAAC GCATCGTATT CTACTTTTTC ATCTTTTCTA AATGTTTGAT 240
 GGTCATTTTT TGCCAAAAA ATATAACTAC CAACACTAAT ATTAATGACT TGAATTTCAT 300
 CATTTCAGC TTGAACAATC GCTTTTGATA CCCAAAGCAG TTCTGTTTTT TTACTACCAA 360
 ACACGCGATA CATTGTAAAT TTGTTATTCG GTGCAACACC TATTAACCTA CCATTAGCAC 420
 TCGTTTGACC CGACACCATC GTGCCATGTC CTTTCCTATC ATTGACATCG TGAACATCAC 480
 CTGTTTCCTC CGGTTTCAGTA CCTCTAAAAC CGTTTAAAGG TACTAAATTT TTGAATCAG 540
 TCGAGAAAT ATTITTCAAA TCGTCATGGT TTTTCATCAC ACCTGTATCT ATGATTGCTA 600
 TTTTGGTGIT AGCATGTTTT GGCAATCAT CATACGATGC ACCATTATTG GTTATTTTAT 660
 TCATATCCCA TTGTCTTGAA AATAATGACT CATTTGATGT TCTGTCTATT GTTTTCTCGC 720
 TAGTAATACA AGTTGAACAT GTGGCATTGA TATATTTAAAT ATCATTITTTA TAGTTTGCTA 780
 AAGCATTAGC ATGCATTTTC GTCATTTTAA TCTGTGCCAC ATGGAATTCC GG 832

(2) INFORMATION FOR SEQ ID NO: 751:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 475 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

GTAAATATCAA TCTCTTCATA AGCTGAATTA TTTTCATGCA CTCTTGATG TGATGATTG 60
 TCACGAACCG CTACAACTAA CATTTTATCG TCTAAAATAA GTTGTTTATA TTTTCTAAT 120
 5 TCATCAGGCG CTAAGTGTGA GCGTGATAAA ACTGCATGTT CACCATCTTC TCCTGTTAAC 180
 AGTTTAGTCA TTCTATCACT AAATGTTCCA CTGTTGAGA TAAGGGAGAT TTCAGAGTCG 240
 TGTAAATCAT TTAGGTGTAA TTTACTTTTA CTAATAATTG TIAGCTCTGA TCTAAATAA 300
 10 CCTTCAGATT TCTTTGATT GATTACGTTG TATAATTCGC CAGTGCATT TACTACAGTA 360
 ATATCTGCCA TAGTGTGCG CCTTTAAAA ATTGTTTAT TTAATCTTT ACCCTCTCTTA 420
 15 ThATAAGTA AAACCCCTAC ATTATTAAGT nATAAGTCTT CATTCGCATT AAACG 475

(2) INFORMATION FOR SEQ ID NO: 752:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1019 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 752:
 GCGACACTTG TGAGTTCTCC AGCAGCAAAC GCGTTATCTT CAAAGGCTAT GGACAATCAT 60
 CCACACAAA CGCAGTCAAG CAAACAGCAA ACACCTAAGA TTCAAAAAGG CGGTAACTT 120
 30 AAACCAATTAG AACACGTGA ACACGCAAAT GTTATATTAC CAAATAACGA TCGTCACCAA 180
 ATCACAGATA CAACGAATGG TyATTATGCA CCCGTAACCT ATATTCAAGT TGAAGCACCT 240
 ACTGGTACAT TTATTGCTTC CGGTGTAGTT GTAGGTAAAG ATACTCTTT AACAAATAAA 300
 35 CACGCTGTAG ATGCTACGCA CGGTGATCCT CATGCTTTAA AAGCATTCCC TTCTGCAATT 360
 AACCAAGACA ATTATCCAAA TGGTGGTTTC ACTGCTGAAC AAATCACTAA ATATTCAGGC 420
 40 GAAGGTGATT TAGCAATAGT TAAATTCCTC CCTAATGAGC AAAACAAACA TATTGGTGAA 480
 GTAGTTAAAC CAGCAACAAT GAGTAATAAT GCTGAAACAC AAGTTAACCA AAATATTACT 540
 GTAACAGGAT ATCTGGTGA TAAACCTGTA GCAACAATGT GGGAAAGTAA AGGAAAAATC 600
 45 ACTTACCTCA AAGCGAACT ATGCAATATG ATTTAAGTAC AACTGTGGT AATTCAAGTT 660
 CACCTGTATT TAATGAAAAA AATGAAGTGA TCGGAATTCA TTGGGCGGT GTACCAAATG 720
 AATTtaATGG TGGGTATTT ATTAATGAAA ATGTAGGCAA CTCTTAAAA CAAAATATTG 780
 50 AAGATATCCA TTTTGCCAAC GATGACCAAC CTAATAACCC AGATAATCCT GATAACCTA 840
 ACAATCTCTGA TAACCTTAAC AACCAGATG AACCATAAA CCGnGACAAC CCTAACCAAC 900

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CAATTAAGT CGTCTAGATA AAATAGGAAG CAAAGTCTTA GCAACGTAAA ATATTTTGA 1019

(2) INFORMATION FOR SEQ ID NO: 753:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 533 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 753:

ATCTTATTCC CAGGTAGGTG nTTTACTTCT TATATTAGGT GCAATAACTC ATGCCACTCA 60
 TCTTGTGGCA CAACATGAaT CGCATTTTCA AAAATTGCAT GTCCTGCTTG ATCAGTCAAA 120
 CCGGCAGCAT GATCAAAATG CATATGTGTC ATTAGCACAT AATCAATATC CTTTGGCGTT 180
 AAATTATAAT TTGCCAAATC AGCAATTATA TGACTTCTT CATCTACTCC AAAATTACGT 240
 AATTGCTTTT CAGATAATTT ACCATTACCA ATACCTGCAT CTATAATCAA ATTATATTGA 300
 GCCGTTTGAA TCAAAATTGG ATGTGTCGGT AAATTGATTT GATTTCGTTT ATTTCGATTG 360
 TATTGCTTTG ACCACAACGG CTTCGGAACA ACACCAACA TTGCACCGCC ATCCATTTTT 420
 GTATTGCCAC CATTTAGaTA ATGAATAGaT ATATCCCCGA TTTTCATAAC ATCACCTATT 480
 CTTTCTGTAT TGGTTATTAC AATTAGCATG TGTTTATTAC ATCATATCAC TAT 533

(2) INFORMATION FOR SEQ ID NO: 754:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1225 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 754:

ATCCCCTGCA AGTGATAAAA TTATTGAAAA AGGCGACATG ATTACATTAG ATTTTGGCGC 60
 GTATTATAAC GGCTATTGTT CAGATATTAC TAGAACATTT GCTATTGGAG AACCAGATCC 120
 TAAACTGAAA GAAATATATC AnATAGTACT TGAATCTCAA ATGAAAGCAA TTAATGAGAT 180
 TAGACCTGGC ATGACTGGTG CAGAAGCTGA TGCCATTTCa AGAAACTATt TAGAGTCAAA 240
 AGGGTATGGA AAAGAATTG GACATTCACT AGGACATGGT ATTGGTTTAg AAATCCATGA 300
 AGGGCCAATG CTGGCTCGTA CGATACaAGA TAAACTTCaA GTTAACAACt GTGTACAGT 360
 AGAACCTGGT GTTTATATAG AAGGTTTGGG CGGTATAAGA ATAGAAGATG ATATTTTAAT 420

AGCGTGTAAT ATGAGGAGGA AACTGAATGA TTTCGGTTAA TGATTTTAAA ACAGGTTTAA 540
 CAATTTCTGT TGATAACGCT ATTTGGAAG TTATAGACTT CCAACATGTA AAGCCTGGTA 600
 5 AAGGTTGAGC ATTCGTTGCT TCAAAATTAC GTAATTTAAG AACTGGTGCA ATTCAGAGA 660
 AAACGTTTAG AGTCGGTGA AAAGTTGAAC CAGCAATGAT TGAAAATCGT CGCATGCAAT 720
 ATTTATATGC TGACGGAGAT AATCATGTAT TTATGGATAA TGAAAGCTTT GAACAAACAG 780
 10 AACTTTCAAG TGATTACTTA AAAGAAGAAT TGAATTACTT AAAAGAAGGT ATGGAAGTAC 840
 AAATTCAAAC ATACGAAGGT GAACATATCG GTGTGAATTT ACCTAAACT GTTGAATTAA 900
 CAGTAACGTA AACGAAACCT GGTATTAAAG GTGATATCG AACTGGTGCC ACTAATCGG 960
 15 CAACTGTGTA AACTGGTTAT ACATTAAATG TACCTTTATT TGTAACGAA GGTGACGTTT 1020
 TAATTATCAA CACTGGTGAT GGAAGCTACA TTTCAAGAGG ATAATCTCTA ATTTGTTAAG 1080
 20 AAATAGCTTG TATTCACTAT ACTGATTAA CGTAAGATAT TCTAAATAAG TCTCATAAAG 1140
 CTATTGCCTA AAATGATTAT AGGTATATG CTGATATGAG GCTTTTATT TTTAAATAA 1200
 TTTTAAAT ATAAACGAA TCGTC 1225

25 (2) INFORMATION FOR SEQ ID NO: 755:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1265 base pairs
 (B) TYPE: nucleic acid
 30 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 755:

35 ACAAACAAT CACTTAGTTA AAATTGACAG TGCATTATAT TCCGATAAAT TATTCAACAT 60
 TGTAGAAAnn AGAATTGATA CACCAGATAT TGGCTATAAT ACAGTGGTTT TATCAGAAAA 120
 40 ATGAGTGTAG AAATTAAAGG GATACCTGAn GTGTTGAATA AATTAGAATC GGTATACGGT 180
 AAACAAGCAA TGCAGGCTAA GAGTGATAAA GCTTTAAATG AAGCATCTGA ATTTTITATA 240
 AAGGCTTTAA AGAAAGAGIT CGAGAGCTTT AAAGATACGG GTGCCAGTAT AGAAGAAATG 300
 45 ACTAAATCTA AGCCTTATAC AAAAGTTGGT AGTCAAGAAA GGGCTGTTTT AATTGAATGG 360
 GTAGGTCCTA TGAATCGCAA AAACATTATT CACTTGAATG AACATGGTTA TACAAGAGAT 420
 GGAATAAAAT ATACACCAAG AGGTTTGGGA GTTATTGCAA AAACATTAGC TGTCATCGAA 480
 50 CGTAAGTATA GAGAAATTAT AAAAAGGAG TTGCCAGAT AAATGAATAT ATTAACACC 540
 ATAAAGGAA TTTTATTATC TGATGCAGAG CTCAAAACAC ATATAAATTC TAGAATATAC 600

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TATGATTTCG CTCAGACTT TATGTCGAT AAATATCTCA GTGAAGAATA CTTAATTCAA 720
 ATAGATGTAG AATCITCAAA TAATCAGAAA ACAATTGATA TAACAAAACG AATAAGATAC 780
 5 CTGTTATATC AACAAAATTT AATTCAAGCA TCTAGTCAGT TAGATGCTTA TTTTGAAGAA 840
 ACTAAACGTT ATGTGATGTC GAGACGATAT CAAGGCATAC CCAAAAATAT ATATTATAAA 900
 AATCAGCGCA TCGAATAGGT GTGCTTTTAA ATTTTAAAGG AGGAAATAAG CAATGGCAGA 960
 10 AGGACAAGGT TCTTATAAAG TAGGTTTTAA AAGATTATAC GTTGGAGTTT TTAACCCAGA 1020
 AGCAACAAAA GTAGTTAAAC GCATGACATG GGAAGATGAA AAAGGTGGTA CAGTTGACCT 1080
 15 AAATATCACA GTTTTCAGAC CAGATTTAGT AGATATGTTT GCATCTAACA AACGTGTATG 1140
 GATGAaaaaa CAAGGTACTA ATGAAAGTTA AGTcctGaca TgaGTaTTTT CaATATTCCa 1200
 AGTgaTGaTT TaaacacagT TaTTGGaCGT ACTAAGATA AAAATGGGTA CATCTTGGGT 1260
 20 AGGAG 1265

(2) INFORMATION FOR SEQ ID NO: 756:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1111 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 756:

CATATACCCG GGTCCAAGA ATCCTCTATC CATATGGTCC CCCAATTTTG ATCCACCATT 60
 35 ATTGTTAAAT ATCACTTTCC CAGCCTACTT TTTTATnCAG TTGGGCTCTC TAAAATTGTT 120
 TTGAATCCA GGTGAACAT ATTTCCAGTG TATGACCAAT CGAAACATTT GCACCAATAA 180
 GGCCGCCAAT TTTTCTGTIA TCATCACCAG TAACATTACC GTTGAATCCA TAAGTTAAAG 240
 40 TACTCATATA CTCCTTTTGA TCAATCGAAT TTCTTGGATA GTAATCAGAT ATTGAGCTA 300
 CTCCTATTATC AGGTAGTTGC AACTGTACCT TAAAGGCTGA AGGCCAGGCT AAACCACTTT 360
 TGTTAGCACC TTCTTCGCTA TAAACTCTAT ATTGACCAGC AATGGTACCT TTGCTTCTAA 420
 45 TAACTAGCAG TTTTTATIA TGATTTTAT CATCGATAAA ACTATAAAAT ACTTTTTTGT 480
 GCATGCCATT TTCTTTATCA TAAGTGAATA AATCACCTGT TTTTACTGTA GTATTGCTTC 540
 CAATATCTGT AGTACCGGTT TTAATATTAA TATCAGAATC TCGCGCATTA GCGCAGGAT 600
 50 TCATTAAATAT GGAACCTAGC AATAGTGTG TTGTTACTGA GCTGACTATA CGTGTTTTCA 660
 TTTTCATCAT CTTCTAATT TTTAAACGA TTTGAGGAAA CAATAATCAA TATGTCAATT 720

GTAGCAACTG ATAAATIACT GAGTGATGAT GAGTGATTAT TTAAAGAATA TGTTTTTAAC 840
 TTTTATTTAA AATTIGAAAG GAAGCATTTC AATTTCGAGG GTTAGTCAAA GTTGAATAAA 900
 5 TTCTTTATGA AACAAGGAAA AGACATAGCT AATTTCATTG ATTAATTICT TTAAACTATA 960
 TGATTGTGTT GATTTAAAAA TGAATCGAT TACAATATAA AAATACAAAT ATCTTAGAAT 1020
 10 TAAATCAATT AATTAACAT TAAATAAAA TTAACATAT ATTAAGTAGT GTAAATTAAT 1080
 AAATAGAAAT AGAGAAAAAG GGTATTAATT A 1111

(2) INFORMATION FOR SEQ ID NO: 757:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 757:

TATCTATTGT ATGTAACAAT AGGTACATAA TATTTTAGG GTGGGTTATA TGAGCATAAT 60
 25 TACAAGATTG TTAAATAACA GTGATTTGA AAAATIAAAT CAACATGTA AATTATATGA 120
 TGATCTAGGT TATCCAACAA ATGAGAATGA TTAAAAAAG AGACTAAAGA AAATAACGAA 180
 TCATGATGAT TACTTCCTAC TGCTTTTGAT AAAAGAAAAT AAAATAATTG GTTTAAGTGG 240
 30 TATGTGTAAA ATGATGTTTT ACGAAWAAA TGCAGAGTAT ATGAGAATCC TTGCGTTTGT 300
 TATACATTCT GAATTTAGGA AAAAAGGTTA TGGAAAGAGA TTATTAGCTG ATCTGGAAGA 360
 35 ATTTCTAAA CGGTTGAATT GTAAAGCmAT AaCACTAAAT AGTGGTAATA GAGATGAnAG 420
 ACATCTGCAC ATAAACTATA TAGTGATAnT GGGTATGTTA GCAATA 466

(2) INFORMATION FOR SEQ ID NO: 758:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 402 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 758:

CGTACAGCAT AACCAATAC ATATCTGCCA AAATCGCCAT ATGCCCCAGT TCCTCTCCA 60
 50 TATTCGGTTG TCATTGAGTT TTTAATTTTA TCGATAGAAA AATGTAATG GCTATCTAAT 120
 TTGTTTTTTA AAGATTTTAT GTAATCtCTA TATTTAAAT CGAATATTCT TTTTATACC 180

55

AACTAATATA TwCAATTGTA TGCCTAGCAT AATCTCTCAT TAAAATATGA GGATATACCA 300
 TTTCTTTATC AAATATCTCT TCATAAATAT AATTAGCAAT CTCTATATGT ATTcCACAAA 360
 5 TGTCGATTGC AAGTGTGCGC CCTAAAACAG TAGCATATAA TC 402

(2) INFORMATION FOR SEQ ID NO: 759:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 759:

AAGTTACTCA ACAGCCATTT GACACGTCTC GATTAGAGCG ATTAGGTATA ACCGAGCGCC 60
 20 AAACATAAGA CATGTATCGT TTATTAGGAC TAGCCAAATA TGAAGATCGA TTTGTTATTC 120
 CAACATCACA CAAAGAAACC TATTAGATA CGTATCACGC ACAAGGTAGT ACAGGATACA 180
 ATTACGGCGG CGAGCATTTT GGAGATAACT GTGAAGGCTG TGGCGTTGCA GTAGGTTTCA 240
 25 GGAAGACTGG TCAAGAAATT TATAATGGAG AATTCTATGG AGGGATTTCG GTGGTTAATT 300
 TCGATAATTT AAAAAATATC CAAGAAAGTT TGGGTnnn 338

(2) INFORMATION FOR SEQ ID NO: 760:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 760:

CTCTAATATA TTTAGAGTGA TAGCTATTGC aGTGTTTAT TTATTGAAAA TAAATGTACT 60
 40 ATCATTAGTt TTAGCAAGTG TATTAGGCAG TTtGTTATct AGGCTACTAT TATCTATTAT 120
 TTTAAATTA CCTGTGTGGG TAGTGTtGTT AAaCGCGATT CCAGGCGTAA TATTCACTTT 180
 45 AATtGTAGct ATTCTTTTAT ATCTCACATT GAGAAAAAGA ATGGCAGTAT TACTAAGATA 240
 ATAAATCAAA ACACGGTCGT CACAATTACT GTTGGCGACC GTGTTTACT AGCTATTtAT 300
 TGTTTTCAGT TtCTTTTtGA TCTAACAAAT TCACTTTGTG ATTTTCCCAA TCAATTTCAT 360
 50 ATGTtGATTt AAATGTtCTA GTTTTAAAGT TTTTATAAT 399

(2) INFORMATION FOR SEQ ID NO: 761:

55

(A) LENGTH: 639 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 761:

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10 GCATATnCAA AACAAAGCT GCTTTAGGTG CGGGGGCTAT TAGCGTTATT TCTGCACTAA      60
   CAGGAGGTTT AGTTGGCGCA GGTGTGTGTT GTTTCCTTGG ATCTATAGCT GCATCGAATA      120
   TTGATACTAG TAAGGGAATA TATATAAAAT TAAAAACTAA AAAGTATGCA GCCGGGGAAT      180
15 ACGTTCTGAC AGGAGAAAAA TGGGATATC AGTAAGGTG ATTTTATGGA TAGATTAAAA      240
   TATTCACTTA AAGTTGGAAT TTTAGCAITA TTATTATTTT GTACTTTAAA TTATTTAGTT      300
   CCAATGCAAA GCAATGCTTT TTCAATAATT ATATTTCGG CAATTTTTTG TGTGTACTTT      360
20 ATGCTTTTAT TTTATATATT TTTAGGAATT TTAAGAAAT GACATGAAAC AAATTAGCAT      420
   TGGCTATGAA GAAATCTATG GGGATAGAAT TTTTCATAGC CATTTTTTAA AAGAGCATGA      480
25 AGTAAAAAAT TGGAAACCG TCAATCAAAT AATTGAAAAA GAACACTTGG ACAAAAATGA      540
   ATATGnAAGC GGAACCGCCG TTATTTTTCT TTTGAGGAT CGTTAGATTA GATTnCGGTT      600
   GTATAGTATA ATGAAAAATA TTATAATAAA TTTATAAAA      639

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(2) INFORMATION FOR SEQ ID NO: 762:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 852 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 762:

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40 nTGTTCGTGT TCTGGATCCA ACGTAAACAG TCGCTTCATC TAATACAATG ATAGGCGCAT      60
   CTTTTAATAT CATTTCTGCA ATAGTGACTC GTTGTTTTTT ACCACCAGAC AATTTATCTC      120
45 CCACGTGACC AACATTCGTA TCATATCCAT CTGGCAACTT TTCAATAAAT TCATGACATT      180
   GTGCTAACTT GGCAGCTTTT TCAACTGCCT CATCCGTAGC TTCTGGATTG CCAAGTTTAA      240
   TATTTTCTTT AAAAGTAAGA TTTAATAAAA AGTTATCTTG TCCAACAAAA CCAACTAAAT      300
50 CGTTAAGTGT TTTGGAITCA ATATCTTTTA TATTATACC GCCAATCGTA ATTTCACCTG      360
   AAGTCACATC CCAGTATCGT GATATAAGCT TGGCAATGGT TGACTTACCG CTACCAGAAG      420
   CCCCGACGAT AGCTGTGAAA TTATTTTCTG GTACTGTAAA TGATAAATGC TTAAGACCA      480

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55

	GAGGCTTCTT AAATTTTGTG GACAATACTA ACTCTTCTAG ACTTAATATT TGATTCACCTT	600
	CAGTTAATGC GTATTGTATA GACTTTAAAT GATTACATA ATTAGTAAAA TTCTTAATCG	660
5	GTGCTACTAC ACCTAAAGAT AATACGATGC ATAGGAAAA TTCCGCATAG TTTAATTGGT	720
	TGATAGATAT CAAATACATG CGACCGGTA AAATCCCTAA AAATGTTGAA GGTAAATACAC	780
10	TAGCTCTTAA ATTCATATAC CCCCATGTAT TTTTAAACCA ATTCAAAGTG TGAATCTTAT	840
	AATTATCTAC TG	852

(2) INFORMATION FOR SEQ ID NO: 763:

15	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 852 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 763:

	CTCTTCATGC GTCATACGTT GTGTCGATTG ATCAGTTGTT TTGCTAAAT CACTAGCTTT	60
25	AAATTTAGAT TGATTTGATT GACGTGCGT AAATnGTTGT TCCTTTTGGT GCGGTTTGGC	120
	TTTTTTTCTT GATCTTATTA AAAATAAATT GATAACCCCA ACAATAATGA GCGCTAAAT	180
30	AATGTAGCTA ATAATGAAGG TCGTAGTCAT TTAATGACCC CCTTAATTTT TATGGATTTT	240
	TACTTCACGG TTCaTTCCaG GAACAACCTG TTTAGACGGT TcTGATTCTA GAGTGATTTT	300
	AACAGGTATT ACTTGAGAAA CTTTAGTGTA GTTACCATCA CTATTGATG ATGGCATTAA	360
35	TGAAAAgtTG CAGCAGTTGC TTTTCCAATA CTATCAACTT TACCTTTAAT AGAAGCTTTT	420
	TGACCGTCAA TAGTCACATC AACATCTTTA CCTACTTCAA CATCTTTAAT ATCTTTTTCG	480
40	TCAATATTTG CTGTTACATA TAAATCATCT AAATTGTATG CATAAGCGAT TGGGTTACCA	540
	GCTTGCACCA TTGAACCTTC CATACCATCT AATTGGCAA TTGTACCTTT TTGAGGCATT	600
	TTAAGATCCA TATCTTTGCT TTCGCCATCT TGACCTTGTA CAGTAACAAT TGCTACTTTG	660
45	TCACCTTTAT CGAGTTTGTG ACCTTGTTTA ACATTAAAGT ATTTAATTG TCCAGATGCA	720
	GGACTTGCTA TTTTAAITTG ATCGCCATTT ACTTTGTCAT TATCAGTTGT TACATAGCTT	780
	GTGTTTAT TCCAAAAATA AAAGCCAGCA ATCCCAATGG CTAAChGTAC AACAAACCGTA	840
50	ATGACATTnA AT	852

(2) INFORMATION FOR SEQ ID NO: 764:

55	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 747 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 764:

	ACATATTCGA CATTCAITTT AAATTGCATA TAACTACATT AACCAITTCAT TGTGCAGCGC	60
10	CTGTGTTTAT GATGATCATT TATTGACTTT TTGCTCTTAT nCCAnGCAAT TTTTIGATT	120
	ATTGCTTATA ATACATTTTA AGACAAATGT TTGTTTCAAC ATCGCATGCG ACATCATTAA	180
	YTATTCATT AAATTTATCC AGTTTCTATT TGCTGCAAT TGCTGAAAAT TAAAGGAGCT	240
15	TATTTTAAAT AATGAACAA ATTATCACTG AATTTATTAG CCGTTTGGG TATGCAGCCA	300
	TTTTTATATT AATTTKATKA GAAATGTAC TACCTaTCGT aCCATCGGgA AATTATTCTG	360
	ACATTGCTG GTCTTATGTC TGTAAATCA CATTATCAA TTTAACTTT ATTTATTATT	420
20	GCAACTATCG CATCGTTTAT AGGGCTGTTA ATTTTATATT ATATCTGCCG TTTGATTCCA	480
	GAAGAAGCTC TATATCGTTT TATTGATCGA CACGTAAGT GGATTAAAT GAAAAGTAAG	540
25	GATTTAAAGC GAGCAAAATGA TTGGTTTAAA AAGTATGGCG TATGGGCTGT ATTkATCTGT	600
	CGTTTCATAC CTGTATTACG TGTaTGATT ACCATTCCAG CTGGTGkaAA CCGCATGAAT	660
	GTGTGACaT TtACCGTTAT TTCATTAAATA GGTACTACAA TCTGGAATTT CGGTTTAAAT	720
30	TTACTAGGAC GCACTTTGAG CGATAGC	747

(2) INFORMATION FOR SEQ ID NO: 765:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 820 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 765:

	TTTACCTTTT AACCAATCAT GCATTAAATGC AATGTGTACT GTCTTAACAA ATGTTGCATA	60
45	TtCATCTTCT GCACTCCACT TTTTCAATTC CTGTTGATTA ATGCGATGTT TTTCTCCATT	120
	TTCCAACATA TTGACATACA ATTTATAATG TTTTCAACT GCCTGAATAA AAGCGAGTTG	180
	ATTTTATATT AAATGTGATT TTAACCTTTC TAAATCTGAA TTAATAAAGT CTTCTATAGT	240
50	CGAATAAGAC ATATCTTGGT AITCAACTAC TGCATTAAAT TCATCTAATA ATTGCGATTG	300
	TGATTTTAGC GTATATAAC TCTCGTCTCC ATAAGATATT TCTGTAGTAG CTGCTGTAGT	360
55	AGGATTTGGA GAAC TGACTA AAAATATGCTC GCCTAATAAT GCATTTATCa AACTACTTTT	420

TGTTCGTGG ATATCTTGCT TTGTACGCTT GAACAAAGGC ACATCCGAAA TTATATCAAG 540
 CGCTTTTGA ATATCTATAG ACATATTTGT TGTAGCTGTA TTTTGATTIA GCTGCTGATT 600
 5 ATCAGCATTA TCCTGAGCAT TATCAGTAGC CACTTGATAT GTTGCTCTTT GTCGACCTAT 660
 TAATTTATCT AGAGATTTCAT CTAATGAAT ATAGTAGTGA CGATAATTCT TAGTCGTCAA 720
 10 TGACTGACGC AGCTCATTTA ATTCTGTATA ACGTTGATAT TCTTTTAAAT CATCACTTTC 780
 TTCTGTGGn AATTCACTCG CCTGCACATT TTCTATnATT 820

(2) INFORMATION FOR SEQ ID NO: 766:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 672 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 766:

TCAACATGAC ATTAATTTAA TAGCGATGCA TACAAATTTA GATGTAAATC CGTATGGTGT 60
 25 CAATATGATG TTGGCGAAGG CGATGGGTTT GAAGAACATT TCAATAATAA ATAATCAACA 120
 AGATGTATAC TATAAAGTTC AAACATATAT ACCTAAGGAT AATGTTGGAC CATTTAAAGA 180
 30 TAAGCTTAGT GAAJAATGGAT TAGCGCAAGA AGGTAATTAT GAATATTGTT TCTTTGAAAG 240
 TGAAGGAAGA GGGCAATTCA AACCAGTTGG TGAAGCTAAT CCAACAATAG GACAAATTGA 300
 TAAAATTGAA TATGTAGATG AAGTTAAAT TGAATTTATG ATAGATGCAT ATCAAAAGTC 360
 35 AAGGGcTGAG CaATTAAATTA AACATACCA TCCATATGAA ACACCGGTAT TTGATTTTAT 420
 TGAGATAAAA CAAACATCCC TTTATGGACT TGGCGTTATG GCAGAAAGTG ATAATCAAAAT 480
 GACATTGGAA GATTTCGCAG CTGATATTAA ATCTAAATTA AATATCCCAA GTGTCGGTTT 540
 40 TGTGTGTGAK TCTAATCAGA AAATTAAACG TATTGCAATT ATTGGTgGTT CAGGTATTGG 600
 ATATGAAKAT CAAGcGTGCC AACAAAGGcGC AGATGTCTgT TACGGTGATA TTAACATCA 660
 GATGCCTAGA TG 672

45

(2) INFORMATION FOR SEQ ID NO: 767:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 403 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

GAAAAAGTTA AACCTACTGT AACTACAACA AGcMAAGTTG AAGAcMATCa CTCTACTAAA 60
 GTTGTMAgTA CTGaCACAAC AAAAGATCAA ACTAAAcAcC AAACGTCTCA TACAGTTAAA 120
 5 ACAGCACAAA CTGCTCAAGA ACAAAAATAA GTTCAAAACAC CTGTTAAAGA TGTGCAACA 180
 GCGAAATCTG AAGACACAA TCAAGCTGTA AGTGATAATA AATCACAACA AACTAACAAA 240
 10 GTTACAAAAC ATAACGAAAC GCCTAAACAA GCATCTAAAG CTAAAGAATT ACCAAAAACT 300
 GGTTTAACTT CAGTTGATAA CTTTATTAGC AcAGTtGcCT TCGCAACACT TGCCCTTTTA 360
 GGTTCATTAT CTTTATTACT TTTCAAAAGg AAGaatCTAA ATA 403
 15 (2) INFORMATION FOR SEQ ID NO: 768:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 483 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 20
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 768:
 25 TTCAATGCTC GTTTTGCTTG CGTTAGTAAT TTCTAACATA TTCATTCACT TTTTGGAGCC 60
 TAAACTATCA ATCACCACCT AAATCATCAT CGTTTGTATT TTAATTGAAG CACTAATTGG 120
 30 ACTGCGTTTC TTGAAGCGT ACGATGTTAA CGGTGGCAAA GATAAAGAAA ATAAGAAAAA 180
 TAGTAAGGAT TTGTTAAAC TAAATCAAT TTTAGTAGCA ATTTTATTTA CATCATGGC 240
 GCTGACAGCA GGTACTGTAG CTGATATATA CGGTTTCACT GACTTAGGAA ATACTAGAAG 300
 35 TGATTTAATC GTTTGGAGCA TAGGTGGTAT TATATTTGGC CTCGTATGTT ACACAATGGA 360
 AGATAAAGA TAACGATAAG GAGCTGGCGA TTATAAAGCT AGCTCCTTTT TTAACTTaTA 420
 TATGTAAAGA aCTaTCCTAA GGGkTTTTAA TCATATGTCA ATAATTTCTA TAATACATTA 480
 40 TTA 483
 (2) INFORMATION FOR SEQ ID NO: 769:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 45
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 769:
 50 ATTATATGTC TGATGTATT CATGTCGTTA AAAATAAAGG TACGAAGAT TTTAAGAAG 60

GGATGATGCT TGAAGGTGAA AAAATCAAAG CTTTTATGA AGATATGCCA CCGTATCAGA 180
 CTGTCAAAAA AGGAACGATA CAAATTAAGC GTGATGGCAC ACCTATTATC CTATTAAATG 240
 TCATTATACG CTnGTAGCTA CCGCAAATC GGTACAATCG CAGTTATCAT TTACGAATTA 300
 GCACAAAACC GCAGGATCAC GTTGAATTCC ATTATAGTAT TTACGGCTGA AGACTGTAAG 360
 nTAnACTGCT AACCATATCA TGGATGATTG ATCATAGATG 400

(2) INFORMATION FOR SEQ ID NO: 770:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 750 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 770:

ATCTTCTTA CTCTTTTAC AAATTGAGAA CGTCTTAAAA TGGCTTTTCC ACGGGCAAACA 60
 ACTTCTCTAG GTrAAAAAGG CTTAGTCATA TAGTCATCGG CACCTAATTC TAAACCTAAT 120
 ACCCGATCAA ATTCATCATT TTTCGCGTT AACATTAAATA TAGGGACTAA ATTTTATATT 180
 GTTCTTACAG TCTTACATAC GTCAATGCCA TCTTTTTTAG GTAGCATAAC ATCTAAATAA 240
 ATTAATCTG CTGTTCCTT TTCTACCTTT TCTAAAGCCT CATCACCATC AAATGCGACA 300
 ACAACTTCaT AACGAGCTGk TTCTArGYTA TATTAAAGTA ATGgTTaCGa TTGaATGtTC 360
 GTCATCTACT wCcaACACTT TTTGCGACAT GgTaTGCCCT CCTAACtLkA AATTATATTT 420
 CATTATAACC GAACTATTTA TAAAAATAmC ATCTACACA TTATCTTTAC ACATTTTTTTA 480
 CATTACTTTA CATATAAATA AAATACTTCT TATATTTCCT TCTnTCATTT GCATGACTTA 540
 CTCTGGGACA ACGAAATAAA TTTTGTAATA ATAGCATTTT TATCCCACTA CCTATGCATG 600
 AGTTTTACTC ATTTATTTCCT AAGCTTATGT ACATATTTCG TTTGTCTAAT GTGTAAGAAA 660
 CACTACATAA TCAATCATTG GTGACTCTTT ATTATTCTA TCTGTGTGCG AaCTTCAATT 720
 CATTTAAGAAA GCGGAACCTA GCAATTAAAG 750

(2) INFORMATION FOR SEQ ID NO: 771:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1462 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

	ATTTAATTAT TATTTTCCAA AATCAATACG ATATAATTTT ATGTTTTTAT CTTTTGGTGC	60
	TGaGGCAAAAT TGATAAGtCG TTTTGCCCTT TTCAATATAT CCAAAATAC CAGCAACTTT	120
5	GCTATATTCC GTATGTGITA CTGCTTTGCC AACATAATTT TTAACAGCTT GATATGTTGG	180
	ACCATTAGCA TCATTATACA TCATTGAAAT ATGAGTTACT TTACCATTGT TTTTCTTACC	240
	ATCAGTAGTT ACTAATAACA TACCTTTTTT AGTATGGAAT TCGTAATAAT GTTCAGTTCC	300
10	ATCTTCATTG TAAGAATACA TCGGATTTTT GTACTTAGTT AAAACATCTT TAATAGATTc	360
	GCCAATTTTC ACATTTTCTA ATGACTGATC ACCCITAATT AATTGTTTAA CAGTATCAAT	420
15	AGAGTTGCCA CTGCTGCTT CGGCACTAGT GTTCACTAAG CCTACTCCCA TTACAACAGA	480
	ACATGCAATT ATACTTGCCG TTAGTAGCTT TTTcATAAGC ACTCTCTCCT TTTATTTATA	540
	TCGTCTTGTG CTCACAACCA TTATACAACA ATCATTTCCTA AAACAACAGT CATATTACAA	600
20	TTATATTACA AATAATAATT ACTACTTTTA TATTTCACCT ATCACTAAAA ATTAACATG	660
	CTTTTCATCG TGATGTTGTG TGATAAATGC AGCTGTATCT TCGACGAATC TTTCTTGCTC	720
	TTcAACAAAT GGGAAATGCAC TTGATTCTTG ATATACTTCA AAGTCCGCAT TTTGGATTAA	780
25	ATCAGCTACT TCCTTAGCTT CTAATCTTGT TGTTCTTTCA CCGAATTCTC CTGCAATAAT	840
	TTTGTGCGT ACTACGACAT TTCTATAAGT TTGAGAAATA TCAGCGTTTT TGAATACCTC	900
	TTTAACTGCT TGAATTTCTT CTTTAGTTGA TATTTCATTT GTATCTACGA CATGTTTGAG	960
30	GAATCGATTc ATTTTTCG GACGATAATA CTTACGCITA TTTAAAAATT TAwCyTgTt	1020
	TTcAGGATCC CaGTTtCGAA TAATATGGGC ATaTTTTCTA AATAAACGTT CTTCGGGTAA	1080
35	TTCACTTCA ATAGATGTTG GATTTACCAA CGTAAGTAT GATGTAAATT CAGGATAACG	1140
	TACTGAAATA TCCGACCAA TGATTCCACC CATTkCATGG cATACAAATG CAACTTCTTC	1200
	AATATATAAA TATTTAAGTA ATTCAACAAT GTCATCAGAA AAATCTTTTA TTTCAATGTG	1260
40	ACGAGGTTTA TCAGAATAGC CATGTCCACG TAAATCAATT AACACAACCTT GAAATGATTT	1320
	TGCTAATTCT GCTGCTAATT TATTAAACAC AGAATAATTA TCAAGTACAG TATGAATCAA	1380
45	TACGATAGGA TAGCCTTCAC CTAAnGTACT GTAAGTATC GATGTTCCAT CTTTCTAGT	1440
	AAATAGATCC ATAATTTTCT CC	1462

(2) INFORMATION FOR SEQ ID NO: 772:

- (1) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 704 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 772:

ATTATTATAA GGAGTTATCT TACATGTTAA ATCTTGAAAA CAAAACATAT GTCATCATGG 60
 5 GAATCGCTAA TAAGCGTAGT ATTGCTTTTG GTGTCGCTAA AGTTTITAGT CAATTmGGTG 120
 CTAATATTAGT ATTTACTTAC CGTAAAGAAC GTAGCCGTAA AGAGCTTGAA AATTATTAG 180
 10 AACAATTAAA TCAACCAGAA GCGCACTTAT ATCAAATTGA TGTCAAAGC GATGAAGAGG 240
 TTATTAATGG TTTTGAGCAA ATTGGTAAAG ATGTTGGCAA TATTGATGGT GTATATCAIT 300
 CAATCGCATT TGCTAATATG GAAGACTTAC GCGGACGCTT TTCTGAACT TCACGTGAAG 360
 15 GCTTCTGTGT AGCTCAAGAC ATTAGTTCTT ACTCATTAAC AATTGTGGCT CATGAAGCTA 420
 AAAAAATTAAT GCCAGAAGGT GGTAGCATTG TTGCAACAAC ATATTTAGT GGCGAATTCTG 480
 CAGTTCAAAA CTATAATGTG ATGGGTGTTG CTAAGCGGAG CTTAGAAGCA AATGTTAAAT 540
 20 ATTTAGCATT AGACTTAGGT CCAGATAATA TTCGCGTTAA TGCAATTTC A GCTAGTCCAA 600
 TCCGTACATT AAGTGCAAAA GGTGTGGGTG GTTTCATAC AATTCTTAAA AGAAATCGAA 660
 GAGCGTGCAC CTTTTAAAA CGTAATGTTG ATCCAGTAGA AGTA 704
 25

(2) INFORMATION FOR SEQ ID NO: 773:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 427 base pairs
 (B) TYPE: nucleic acid
 30 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 773:

GACCACGACA CCACAAGCTA TGAAGAATGC CYTTGTTAAG CCGCCTTIGA ATtGCATAGA 60
 GATGAAAATA CCAATATTAA TAAAGAAGTT ACAGAAAATA CCTTTTGTA AATATTCAA 120
 40 CCATGTTGAA TCAACAGTCT TTTTCTGAAC TAAAGCTGTT AAAGCTTGTG TCATTTCAGG 180
 TGTCAATGACA TGGCAGAAAT TCATTAGAA AAATAACACA AACCACCTA AATATTTC 240
 45 TAAGAAACAA TATAATAAAA TCcAAGTCAT CTTCITAA CAAGGACTT TATAATCCA 300
 GCCTACTGTA AAGTACATGA AGTTACTTGT TAATAATTCA GAGTTAGTIA ATACAACTAA 360
 AATCAAACTT AAACATAACG CAATGGCTCC CATTAAATTG ATAAGTCCAT CTACGTGAGT 420
 50 ACTCGCA 427

(2) INFORMATION FOR SEQ ID NO: 774:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 774:

AGGTGAGCAT TATTAATAT TGCCAAGAAA TCAAACTAA AAACATATGCA AAAGATGTAG	60
ATATATTATT TATTCTTGGC GGTGATGGCA CGGTTAACGA ACTTATAAAC GGTGTTATGA	120
CACATGACCT TCAACTCCCT ATTGGCATT TACCAGGCGG TACTTTTAAT GATTTTACAA	180
AAACGCTAAA TATAGCACCT GAATCATAAA CAAGCTAGTG AACAAATGGA TTTTCGACA	240
AGTTGGTACA TAGCATGTAA TTGAAAATGA AATGAATCAA TATGCACTCA ACTTTGTGGG	300
CTTAGGTCTC ATGTTCAAAA CGCGAAAAAC GTACAAGAGG TTCAAAAGAT GTATTGGGTA	360
AATGGAGTTA TATTGGGTCC ACCGTCCAAA ACnCGGcNAa	400

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(2) INFORMATION FOR SEQ ID NO: 775:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 484 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 775:

AATTATTCCT CAATAGGAGC ATTACCCGCT CTCTCACCAA TTCCCAAAAA TGTAGTTTCT	60
ATTTGCTTTG CACCATTAA AATTGCAGCT AATGTATTG CAGTAGCCAA CCCTAGATCG	120
TTATGACAAT GAGCAGAAAA AATTATGTGA GAATAITTTT TTACAAAGTA ATTA AAAATA	180
TCTCGGTATT CTAATGGTGT CGAACATCCT ACAGTGTCCG CAAATGTAAC TGTCTAACT	240
TGATATTTTG AAATAATTC CATGTATTCT TTCAATTTTT CTCTAGAAGT CCTTGTTCCA	300
TCTTCAAAAA AAATATCTAC TCCTTTTTTA TCTTTCTTTA ATATATCCAA GCAGTCTTTG	360
ATTTTCTGAA TATAATATT ATTTGAAAAA TTAAGCTTTT CTTTATATG CAAGTCAGAT	420
ATTGGCAATA GTATTTTAC CACTAAATTA TGAATTTtCA ATtGACTAT TTTtGTATG	480
TCnT	484

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(2) INFORMATION FOR SEQ ID NO: 776:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 788 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 776:

CGCAAGATGA AGTTAAAGAA CTTAATCGCT TATTAGGTAA AGTCATTTCAT GCATTGTGATG 60
 5 AAACAAAGGA AAAATAATTA ACTTTTGTCA TGACAATTAA AGTAATGTTT AGAATTATTT 120
 AAGAATAGAA AAACAATTAG CACGCGTAAC TTGTTAGTAA AAAAAGTCTT TGAAGGTTT 180
 CTTAGCCTAT CAAGCAGTTT TTTTATGCAT TATATTGAAT CATATTCCAT AAAGCACCTT 240
 10 GATTAGCTAG TAATTGTGTA TAGTTTCCCT TTCAACTAT TTTACCATTT ATCATCACAA 300
 TGATGGTCTC AAAACGTGAC AATAAAGTTA AATCGTGTGT AGCAACAATT AATGTTTCTG 360
 CATGTGCTTC AATTAAATCC ATAACCTTTA AACTATTTTG TTTATCTAAT GCAGTTGTTG 420
 GTTCATCTAA AATCCATGTT GATGCAGTAT CTTTTAATAA CATCCTCGTA ATCGCTAAAC 480
 GCTGAATTC TCGCCAGAT AATGTATGAC CATCTAAGTC AATTGACGT TCTAGTGCCA 540
 20 AATGTTCTAA ATCTAATTGC TTAATATTG CTTGCACGCG TTCATCTTTT TCATCGTAA 600
 ATAAATTTTG ACGTATTGTA CCATCAAATA ATTGTTGAGA TTGTAGCAAG ACATTTAACG 660
 ATTCAAACCT ATCTTTGTCA TCTATTTCAT ACATATCCAT ATTTTCGAAA CGAACAGAGC 720
 25 CACTATCTAA TTGATATAAC CCTGCCATAA TTTGTAGTAA TGTACTTTTT CTGAACACG 780
 AAGGACCC 788

(2) INFORMATION FOR SEQ ID NO: 777:

30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1145 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 35 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777:

TTACAAAAGA AATGCAACAA AATTTTGTAA TCATTACATT TTTTATATAA AATTTCACTT 60
 40 TAGATTACAA ATAATTACTT ATTTTGTCAA TTTATTAAAT GTCAATATGT TGATTAATTA 120
 ATAGTGTGT CTAATGTATA TAATATTTAG GTCATCGTTA TAGTCAACAA TAATAAGSTA 180
 45 TTTGAGTTG AAATTTATCT TATTATTTT CCACCTTTAC GTGCTATCCC ATTACACAAA 240
 AACAAAAG TAAGATATT AAGTACAAA AAGTGAACA CTTGTAGAT GCTCCACCTC 300
 AATTATATTA AGTTATATTA TTTGCTGCT TGGTATAATT CATCAACTTT TTTCCAGTTA 360
 50 ACAATGTTCC AAAATGCAGT CATATAGTCT GGACGTTTAT TTTGATATTT CAGATAGTAG 420
 GCATGCTCCC AACATCAAA TAGTAAGATT GGTGTTTTCG CTTCTGTAA TGGATTATCT 480

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GATCCAAATA ATGTGTGTC TTTATTTGCA AATTCATTTT TAAATTCATC TAAAGTGGCC 600
 CACTGCGcTT TGATGTCATC TATTACGCCA CCTTTTTCTT CAGAATTAGG TGATAGTATT 660
 5 TCCCAGAAATA ATGAATGGTT AAAATGACCA CGGCCATTAT TACGGA CTGA CATCCTCATC 720
 GCTTCCGGTA CCTTGTCTAA GThAGCAATC ATATCCGCTA GTGATTGATG CTCTAACTCT 780
 GTTCCTTCAA CTGTGCGTT TAATTTCGTC ACGTACGTAT TGTGATGTTT GTCGTGATGA 840
 10 AACTCCATTG TTCTTTGATC TATATATGGT TCCAATGCAT CATATGCATA TGGTAAATTT 900
 GGTAAATTTAA ATGCCATAAG TATATTCCTC CTTTTATGAA TATACTTTTA TAATAATTAA 960
 TTTTGGGTGT GTTTTGGCAAT AATTATTATT TATTTGTTAT ATCCAATTAT ATAAAATTTA 1020
 15 AATAITCGAA ATTGATATAA TATTTAATAT TGAATGCAAA AAGGCATTTA ACTGCTTTTG 1080
 TTTCCCGCTT TTAAGAGAA TTAATAAAGA CAACTTCCAT TTTTCAATAA GAAATTCGCT 1140
 TTTCT 1145

(2) INFORMATION FOR SEQ ID NO: 778:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 902 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 778:

30 AAAAGAGGhC CAATATTATC AATATACGGC CGGAAGATTC CCTTTTCTT CTCCACTTAC 60
 TAAGCCCATC AATGGTGTAT GTTATCAATT GGTGCTATCC GCATTAAATA ATTATCTTCA 120
 35 ATTGTGGTAT CAAAGCTATT CGCTTTTCTT CCAATAATGT CTTTACCATA TTTATTGAAT 180
 GCACCTACTA AAATCAACAT AAATGGAATT AACAGGTTA CTACAATTGC CATCTTTATA 240
 40 AATTGTGGTA TATAAGAAGG TCGCCAATT AAAGCTTTAA TACCTCTT TCTAAATGGA 300
 GTTCTATAA AGCGATATGA TAGCTCTGCA AATATAATTG TTAACCTTAT ATCTATAAAG 360
 TACACATATA CAGGTATCTG TCCGTCTACA TAGTAACAT GTACGAAACT AATTACTGCA 420
 45 AAATGCCATA AATATAAACT ATAAGACCTT TTCCCGATAA ATACTAACAC TGGATTGAA 480
 AATATCTTCG CtATCCATGT AGATGGATGA ACGACACTAG CAATAATAAA TAACGTTAAT 540
 ATGGATATTA AATGAAACC ACCATCATAT ATCCAATTG TCTCATCATT AATAATGAAA 600
 50 AATAATAATA TAAGTACTAT AAATGATAAA CTACCTATGC TATCAATAAC ATATTTTACA 660
 ACTTTAGGTG GATCATTTTT CAATTTAAAC GGTGGCCATA AAAAAGCTAA AATAACACCC 720

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ATACTATAGA TAAACATCAT TAACCCTAAA GAAATTATTG ATACTCCCCA AAAAAATAAT 840
 CCTATTTTGT ATCGCTTTTT AATTGTTAAC AATAATGTAA CCAAAATAAC TGGGAAAAAT 900
 5 AT 902

(2) INFORMATION FOR SEQ ID NO: 779:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 779:

GGAATTAGTT TCCTAATGAT CAAACCATAA CCATTAGCTT TTAATGATGT TACGCCTTTA 60
 20 AAGATTAGAG GATGATGACT AATAATAGTA TTATAACCTT TTTCGATTGC TTCATTACT 120
 ACTTCCAACG TACAGTCTAA TGCTGTTAAA ACACCAGTAA CTTCAACATC TTCATCACCT 180
 ATTAACAATC CTACATTATC CCAAGATTCA GCAGTACTAA ATGGCACATG ATGATCTAAC 240
 25 AATGTCATTA AATCAGCTAT TTTCATACTA TAACACCCTT TCAATTACaG CAATTTTCGTC 300
 aTTAATTTGa GCTAAACGTT GakGakGTTG TTCAGTAwTG AGLTTCGATT TAAeATGATA 360
 AagTGCyTcT AACTCtCTTT GcCATTtTtT TATAAAATAT 400

(2) INFORMATION FOR SEQ ID NO: 780:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 557 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 780:

GTTCCTGTTT TAACATCAAT ATCTATCTTT TTAATATCTT GAACATAAAG CAGATTACGT 60
 TGGCTAATAT TTGAATTTAT GTTAATCACT TTTTGGTTC CATTTTTAAA ATGTACTGTG 120
 45 TAAGThGCTT TTTTGCATA TTTTAATTCA CGTTCGCCGA TACCTCTATC ATGCTTCAAT 180
 ACTGaTTTAA CTTTTTGA GATATCTTTG TAGCCTACAC GTGGGTACAC TGTAaATTTT 240
 AAATCTGaTA AAATGGSTGT TGATGTGCCA TTTACTGCAA TTGTGTATGG TACATATCTG 300
 50 TCTGCTTTG CTTTAGITCC TGTTTTAACA GTAATTCAA TTCTCTTAAC ATCTTTGCA 360
 TGAActAAGT TTGCTGTGTA ATTTTTTGAA TTCAACTGTA AGATTCTTTT ACCACCATTT 420

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CTATCATGCT TCAGTACTGA TTTTATTGA CTAGTTAAAT TTTTGTAAAT TGTCCAAGGT 540
 TTATnTGAAA ATGAAA 557

5 (2) INFORMATION FOR SEQ ID NO: 781:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 475 base pairs
 (B) TYPE: nucleic acid
 10 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 781:

15 TTCTGATAAC ACACTTTCT TGGACCAAGT GACAAATGTA AAGTTGATAT TCTCAAAAAA 60
 TATAITTTAT TGAAGAAGTA ACTATATCGA CCGCTCTGTG CGACTTGCTG TGTAGAAACA 120
 20 TCAAGCCAG CTTGAAACTT CATATAACT AATAACTTTT GATAAATGCT ATTCCCAATT 180
 TGTTCATACT GCTCCAAGTT ATCATTAAAT CTAAATTAA TACTTACTTC ATTTTAACT 240
 GGAATAAAAT GTACATCACT CGCTTTCATT TCTATCGCTT TATTAATTAT TTCTTGAAAT 300
 25 AGAATCTTCA AAAAAACACC TCCTACATAT AATCAGTAG GAGGTGTTTT TATTACTTCA 360
 ATTTAACCGT GTAAAAATGG ATTTAATTGT TCATCATCAA CCGTCGTATA TGGACCATGT 420
 CCAGGGAATA AAGGTAAATC GCCTTCTAAT TCAAATATTT TATCTTGAAT AGAAT 475

30 (2) INFORMATION FOR SEQ ID NO: 782:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 35 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 782:

40 ATGAATATCG GTGCAGGACG TATCGTTTAT CAAAGTTTAA CTCGAATCAA TAAATCAATT 60
 GAAGACGGTG ATTCTTTGA AAATGATGTT TTAATAATG CAATTGCACA CGTGAATTCA 120
 45 CATGATTCAG CGTTACACAT CTTTGGTTTA TTGCTGACG GTGGTGATACA CAGTCATTAC 180
 AAACATTAT TTGCTTTGTT AGAAGTTGCT AAAAAACAAG GnGTTGAAAA AGTTTACGTA 240
 CACGATTTT TAGATGGCCG TGACGTAGAT CAAAAATCCG CTTTGAATA CATCGAAGAG 300
 50 ACTGAAGCTA AATCCATGAA TnAGGCATn GGCCATTGCG AC CGGGGCGCT GGCGTAAAT 360
 AGCCAAAGGA CCGGGCCAAC CGTTGGGACC GGAAGAAAAA 400

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 810 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 783:

10	GATTAATGTA CTCGTGACAA TAACGTTTGA AGTATGATAA ATAGATATAG AAATAAAGTC	60
	ATATGTGACA TCAATTAAAT GATGTTCAAA TGACAAGATA CAATAGAGGA ATGTTTGTAA	120
15	TAAACCGCT TCATATAAG GTCAGTCAA TATATGATAC GACTTTATAT GAAGCGTTTT	180
	ATTTCCTATG AGCTAGTATA TTTTATAATA ATTTTCTAT TTCTCTTCG ATTTGAACAG	240
	GTTTTTTTT AGGTGCAAAAT CGTTTAAACA CGTTACCTC GCGATCCACT AAAAAGCTTAG	300
20	TGAAATTCCT TTTGATTTTC TCATTAAAGA ATCCGCTGTG TGCCGCAGTC AAATATCTAA	360
	ATAAGGTAA TTGATGTTC CCTTTTACGT CTATTTTTTG ATGCATAGGG AAGGTAACAC	420
	CATAGTTTAA TTTACAGTTT TGAGCTGCTT CTTGCGCTGA ACCAGGTCTT TGGCCACCAA	480
25	ATTGATTACA AGGGAACCT AGAATTACAA ACCCTTGATC TTTGTATTTC TCGTATAATG	540
	ATTGCAAAAC TTCAAATTGT GAAGTAAAGC CACATTCGCT AGCTGTATTA ACAATTAGCA	600
30	TAACGTCACC CTTATATGCA TCTAATTGT AAGTAACACC TTTATTTGTT TCTACTACAA	660
	AATCATAAAT TGCTCCATT GTATCATCCT TTCGATTAC TTAAaATGTA CCACAAAATC	720
	GTGTAaAGT CTkTACTArA ACTCTATGAT AGAATACTTT GAGTAGGATT TTATTAAGGA	780
35	GATGTATAAC ATGGrTCAGC AACAAATTCA	810

(2) INFORMATION FOR SEQ ID NO: 784:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 788 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 784:

40	AAATTCATTG CAGAAAACAT AGATAAATAA ACAAAATTGAC TTTAAACGAG CGTTGCAACA	60
50	TATCTCGAAT TGTAAGGAG CTTGAAATG AATAAAAAATA TAGTCATTAA AAGCATGGCA	120
	GCATTAGCCA TTCTAACCTC AGTAACTGGA ATAAATGCTG CAGTCGTTGA AGAGACACAA	180
55	CAAAATAGCA ATGCAGAGAA GAATGTTACG CAAGTTAAAG ATACAAATAT TTTTCCATAT	240

	ACCAATAAAC ATGTATCAAA AGATTATAAA GTTGGCGATA GAATTACTGC CCATCCAAAC	360
	GGTGACAAAG GAAATGGTGG TATATATAAA ATTAAGCA TTTCTGATTA TCCGGTGAT	420
5	GAAGACATCT CTGTCATGAA TATTGAAGAA CAAGCAGTCG AACGTGGACC AAAAGGCTTT	480
	AATTTTAAATG AAAATGTCCA AGCATTCAAT TTTGCGAAAG ATGCTAAAGT TGATGACAAA	540
10	ATTAAAGTTA TTGGTTACCC ATTACCTGCT CAAAATAGTT TTAACAGTT TGAATCTACA	600
	GGAACTATAA AAAGAATsAA AGACAATATT TTAATTTTG GATCCATAC ATTGGAACCC	660
	GGGGAATTC A GGGATCACC A GTTCTAAAT CTAACAATGA GGTGATAGT GTGGTGGTAT	720
15	GGGCGGGTAT TGGGAAAAAT TGGGTCTCG AATAATAATG GGTGGCCGTA TACTTTACGC	780
	CTCCaAT	788

(2) INFORMATION FOR SEQ ID NO: 785:

20	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 1023 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
25	(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 785:	
30	CAATATTTTA GAAACaATAA TTAACCTTGG ATGAACAAAC TATTAACAAT AATCTTGAGT	60
	ATTATATTTA TCTTAATTAA TAATATATTT ATTTAAGATT ATGTTACTTC CAACTTTCAA	120
	AGTAGAAAAA CGGTATAATT TGTGTATGGG TGTTTATGTA TAACTGCAA AAAATACAGC	180
35	CTACAACCAC ATAGATTGTA GACTATATTT AAAATAATAG GTATTTATCA TATCTCGTAA	240
	ACTTAGTGCC AATTTTTATA CTCGTGGTGC TGGTAAGCTA CCCTTAAATT CAGGAACGTA	300
	GTGTGTaGGG CTATAACCTG GAACAGCATA TTGATAATTT ACATTTTGA TATTTAATGA	360
40	TGGTTTCCCA ATTTTATAAC CATTGTATTG TGAAAATGAG AAATAKTCT TCACACCTTT	420
	AACTACTTTA TAAGAATAGA AGTATTATA GTCATATGCT TTATTTACTT TAGCATTTTG	480
45	ATGTGTTGCT GTTGTGTTAT TTTGGAACCT TGGTACATGC ATACGATGTG AATTGTGACC	540
	ATATGGTGGA ATTACCTTGA AACTATTAT TTTGGGCACA ACACAAAAGT GATTAATTTT	600
	AATGCTAGCA TGCCCTGSGT TAACAAATTT ATGCGCGTGA TATCCAGGAA CTGCAAAATG	660
50	ATGCTTGATA ATTAAGATT gAGATGGATG TGTATATCTA GGCATTCTG ATGCTTTAAC	720
	AATAAAGTGT TTATTAATAG AATCCTTTGC ATGATTACA TGTTTATGTA CATGTGTTGA	780
55	TTTGATGAA GTAATAACTT TCTTGTAGTG GGTTCGCTA GTAATGAAGT GGTGGTTTAC	840

5 TGTGTGTGAA GCTGGATTGT TTGTTGCTAC ATTCACGCGA TTATTGATT CTTGTACTC 960
 TGGCACAATG TTTCCTAACT TTGATTCTGG nACGACAAAG TTTTATCTA CAATTTTACT 1020
 AGC 1023

(2) INFORMATION FOR SEQ ID NO: 786:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 487 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 786:

TCAAGTTTAT TCGCTGTGTG GAAAGCTTTA ACTTGATTTT CTAAAGCTTT ATCAAATTGC 60
 20 GTTGATTTCAT TATCAACTTT ATAACCTAAA GCTGATAAAC CAATTTTAAAT AGTTTAAATA 120
 TTTTATCAT CGTCTCCAAC TTTAAATGTT TTCGTATTAG GAATGACATT TAAAGATTGA 180
 TATTTAGGTG TGTCAATAGT AACGCTCGGT TTAATGCCTT TACCGTGAAT ATAATGACCA 240
 25 TCTGCGGTTA ACCAATTTAT TTCAGTATAT TTTAACAATG AACCATCCTT AAACCTCTCTT 300
 GTAGTTTGTA CGACACCTTT GCCGAATGTT TTGACCCAT AAACCTTAGC TTTATTATAG 360
 TCTTTTAGCG CACCAGTAAA CACTTCAGAA GCGCTAGcTG AACCTTCATT CACTAAGATG 420
 30 GATATATCCA TGTCCTTCGC TTCTTTTAAc GCATCATTAG AAGTtGAATT GCTCAGTACT 480
 TTACCTT 487

(2) INFORMATION FOR SEQ ID NO: 787:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 803 base pairs
 (B) TYPE: nucleic acid
 40 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 787:

GnAAACrATA TTTAAATTA AGTGTTTCGAT TTGCAGTAAA TTCATACAGA AAAGCTAAAA 60
 TTTAAATGAT AcAGTGGAAT AATGTCACAT TCTCCATAAA TAATTGACCG AAGAAGCATA 120
 50 AAACATAGAA TAGTACAGTA ACACTTACCG GCTGCTTTTC TTTATATATA ATTGCATTAA 180
 TACAATAATA AATAATAAG AGTGAAATTA GTGTTGATGT CGCATAATTA TAAATCCTG 240
 CAAACCAGCC ATATGTATCT GCATAAATAG CACTTGTGTA AATTAAcATT AAAGAAAATG 300

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	TGCCCATACT AATGAGGCCA TATGAAAGCC AACGTAACCA GCTTACATGT ACAGCTATAA	420
	TTTCAAAGAT ATTTCCGATA TAGCGACCAT TAAGTGATGC AAATCCTACT TTTAAATAT	480
5	CAGTATTATA ATTGCTAAAC CATTGTAAT CATCGTGCAT GAGTGGTAGT AAGATACCCA	540
	TAAAGTATA AAACAATAAT ATCGCAATTA ATATCAAAGT TGTCTTGTGT AATTGAATTG	600
10	TTTTCATT GCTAATCCTC AAATCTAGTT AAATTTTCTT CAACCTGTAG GTCGAAAAAT	660
	TAATTCAATA TTTTAAATGT ATTCTAATT TTCACCTATG CATGTTTCTT CAATCAAAAT	720
	AGATAAACAA GGTATTTAAT ATTACTTTCA ACAATTTATC TAAATCGCCC CTGCTCTTTT	780
15	TCTATGACGA ATGATTACAC TTG	803

(2) INFORMATION FOR SEQ ID NO: 788:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 788:

	GAAAAGTTGT ATTATGAATA AAGTTAATCA AGGTGCTCAG GAAGAGGCCA TGGAAGAGTT	60
	ATTAGTGACT TTTCAAAAAA TGATTAAAGA CTAAAGGAGT TTAAGATGAT ACATCAAAAT	120
30	ACGATTTACA CAGCGGGAAT TGAAACAGAA GAACAAGTAA GTCAATTGAC AGAACGCATT	180
	TCAAATATGA TAGGTGTTC TCAAGTGAAT ATTAATATAA TAGATGGTCA AGTAACTGTA	240
35	TCGTATGAGA CACCAGCAA TTTGAATAGT ATTGAAAAAG AAATCTATGA TGAAGGATAC	300
	AAAATTGTAT TTTAGGGTAT AATGTAGAGT GCGCTATAGA TTTTAATTTT GAAAATAAAT	360
	TAAAAATTTT GTAAATGATG TAGTAAAGGT ATGTCGAATA	400

(2) INFORMATION FOR SEQ ID NO: 789:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 762 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 789:

	GTTTAAAGAT GGAGAGATTA TTGATTTTTC AGCTGAAAAA GGTGAAGCGG TATTGAAAGA	60
	TTTAATCAAT ACTGATGAAG GTTCAAGAAG ATTAGGTGAA GTAGCATTAG TAGCTGATGA	120

ATGTCATTTA GCGATTGGAT CTGCTTACGC CTTTAATAIT CAAGGTGSA CGGAATGAC 240
 TGGTTAGAGAA AAGATTGCAA GCGGATTAAA TGATTCAAAT GTACATGTCG ATTTTCATGAT 300
 5 TGGTAGTAGT GATTTGACTA TTTATGGCAT ATTCGAAGAT GGGTCAAAAG AACTAGTATT 360
 TGAATAATGGA AATTGGGCAT CAACATTTTA ATAAATGTTA TTTTGAGGTG CTGAGTAGGA 420
 10 AATGAACAT GTATTTAAAG GTCAATACG TGATTAAAGT ATAGATTGGG AGATAAAATA 480
 ATGACAAATC AGGACAGACC AATGAAATCT ATGTCAGAAAT CAAAATGTTA TAAAAATAGA 540
 CAAGTTTTCC CTCAGATAC GAATCACCAT CATACAATGT TTGGTGGTAC ATTGATGGCT 600
 15 AATATTGATG AAATTGCAGC AATCACAGCT ATGAAACATG CTGGTGGCA AGTAGTTACC 660
 GCATCTACAG ACTCAGTAGA TTTCTTAAAG CCGATTAAAA CAGGGGACAT ATTACAATAC 720
 GTAGCGATGG TTTTCATCGC TGGGACTAGT TCAATGGAAG TG 762

(2) INFORMATION FOR SEQ ID NO: 790:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790:

TTTAATTTTA TCITTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT 60
 TATTTCGTCA CATTGATTG CAATAGCCAT ATCATGTGTT GCTAAAAACA GCACITTTATT 120
 35 TTCTCGACC AAACCAAATA ATGATTGAAT AATCATCTGT CCGITTTTAG GATCTAACGC 180
 ACCCGTTGGT TCATCAGCTA ACATAACAAT CGGATCTTTT AACATCATTC TAATTTAAAGC 240
 GACACGTTGT TGGTCACCTC CACTTAGCGT ATGAACITTT CTTTTTAAAC TGITTTGACAG 300
 40 ACCAAACTGT TCAATATAAC GtATCTtAt TTGTnCTTTT TCITTCITAC TTATTTTTTT 360
 ATATGCTAAT CCAATATCTA AATTTTCATT TACTGnCAAA 400

(2) INFORMATION FOR SEQ ID NO: 791:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 791:

AACGTAAGC GGAAGTTGGG ATGGTTGAAG ATGCTGAATT TCATGCGCAA CTACATCGTT 120
 ATAATGCTTT TCTAGAGCAA CATCAAGATG ATAAAGTGTT GTATTThGAA ATTGGAATTG 180
 5 GTTATACTAC ACCACAATTT GTGAAGCATC CTTTTCAGCG TTGACACGTA AAAATGAAAA 240
 TGCCTTTTAT ATGACGATGA ATAAAAAGGC TTGCGATTCC GAATTCAATT CAGGACGTAC 300
 10 CATACTTTAA CTGAGATTCT CAACCTGTTC AGCAGACTCC GGACGCAGCA CACGAAATAC 360
 ACATGGGGGC AGAGThACTT ATGGACCGTT GAATGnGATA 400

(2) INFORMATION FOR SEQ ID NO: 792:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 678 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 792:

GTTCCGTTTG ATACAGAGAA GCGAATGTAA GCATAATCTT TAACAGTATC GTATGATATA 60
 25 AATTAAATTG CAACTTTTTG TCACCTTCAT AAACCTCAAA TTTTCTCCAA AATTGACCTG 120
 ATTGTAATCC TAATTCAATT TCTGGTTTTG AATCAGTGAA AATAACTCTA GCAGGTTTAA 180
 30 CAGAACTTGC ATAATGATAA AACTGTTGAG TTCCATCTTT CTTTTTCATT TCAAAATCAA 240
 TTGGACGAGA GTTTGGTGCG CTATGATCTT TGTCTTTTAT TGCAGGGTTT TTAATCGCTT 300
 CTCtAAGTTC CTGaTTCAAA ATAGGATATG TAITGTTAgT GGCyTTTGCT GCTGTTTTAA 360
 35 CTTCTTTTTG TTCCTTAGGG GcTTTAACTT CTTTAACTTC TTTAGCTTCT TTTGTTTCAG 420
 AAGTAGGGGC CTCAACTTCT TTATTAGATA CTGAGACAGC ATTAGTACT GGTTTAGTTT 480
 CTGGAGCTTT TTCAGATGTT GTTGTTGGAC TTGCAACTGC TTCAGTTTTT GGTGTGCTT 540
 40 CTGTATTGTG ACCACCTGTT TCCTCAGCTG CTGCTTGTTG TCGCCATTGG ACATTAAATA 600
 TAAAAGTGTA CTAATTGCTA CAGATGCAAC GCCTAGTGAT GACTTCTAA TTGAATAAAA 660
 TGATTAAAT TCTTTTTG 678

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(2) INFORMATION FOR SEQ ID NO: 793:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 351 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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ACTGGCGGAT CCACGATGGC ATGTGTTAGT GAAGCAATTC ATTATATTACC ATATAATGTA 60
 TTCTTCGTAC CAGCCAGAGG TGGACTAGGC GAAATGTTG TCTTTCAGGC AAACACAATT 120
 5 GCAGCCAGTA TGGCACAACA AGCTGGCGGT TATTATACGA CGATGTATGT ACCTGGATAA 180
 TGTCACTGAA ACAACATATA ATACATTGTT GTTAnGAGCC ATCAGTCATT AAACACTTTA 240
 GGACAAAATT AAACCAAGCA AACGTTAATA TTACACGGGC CTTTGGTGAT GCGCTGGAAG 300
 10 ATnGGCGCCT CGGACGTCCA ATCACCTGGA AAAGGTCCTT GGAACCACTT C 351

(2) INFORMATION FOR SEQ ID NO: 794:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 794:

GGCGAGGCG TTCGCGCACC GGCCGAGCAG CAAATAGGCC GGGATGTGCG GTCTTGCTGC 60
 25 AGGTCCGAAA AATATCAACT TGAAGAGGTA ACACCGnTAG ATATGTTTCC ACAACAACAA 120
 CAGTGTGAGA CAGTGGCATT ATTCAAATTG AAATAGCGCA CATGATTGTA GATAAAATTT 180
 30 CGCCTTAATA AGTGAAGAAA GAAGTCGTAT ATTAAAATTT TATTACAGCC AATTTACTTT 240
 CTTGATATGA ACTTTTAAAA TAAATGTGA CATTGTATAC TATATTTAAA GAAGAATAAG 300
 AATGTCATGA TCGGGAGGGT TGGTAATGCA TAAATTTGAT TTAACGACAA ATAATTTTCA 360
 35 AATGCGAGGT TTATTATCCT GGCAACCTGG TTATTGCGTT 400

(2) INFORMATION FOR SEQ ID NO: 795:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 407 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 795:

ATGTTCACAG AACGTATTTT TACAACCGAC AATTAGCATA TGTCATAATG AGTTTITATAA 60
 50 TTGTATTTTT TATTGCAATT TTAATGAATG TTAANTTACT GAGTAATATT AAAGTGCAAA 120
 AAGGTATGAT TATAACTATC GTCTCACTAT TATTACTGAC GTTAGTAATA GGTAAAGATA 180
 TTAATGAGTTC TAAAGTTGG ATAACTTAG GATTATGAA CTTACAGGCA TCTGAGTTAT 240

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TAAGTAAACC AAAATTAATC TTAAGTCCTA TTGTATTAGC ATTAGGTGTG ACGTTTTTAG 360
 TTTTCTTACA AAAAGAGCTG GGCAACATTA CTAATATTAA ThAThTT 407

(2) INFORMATION FOR SEQ ID NO: 796:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1053 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 796:

CAGTAGGTAC ACTTGCAGCA TTTGTTGGAT ACTTAGAGTT ATTGTTGGG CCTTACGTC 60
 GTTAGTCGC ATCAITTTACA ACTTTAAGCG AAGTTTITG TTCAATGAGC CGGTATTTC 120
 AATTAAATGA TGAAGATTAT GACATCAAAA ATGGTGTGG TGCTCAACCT ATTGAAATTA 180
 AACAGGTCG TATTGATATT GATCATGTTA GTTTTCAATA TAACGATAAC GAAGCTCCAA 240
 TTTTAAAGA TATTAATTTG AGTATTGAAA AAGGAGAAAC AGTTGCTTTC GTAGGTATGA 300
 GTGGTGGTGG TAAATCAACA TTAATTAACT TAATACCGAG ATTTTACGAT GTAACCTCTG 360
 GGCAAATTTT AATAGaTGGT CACAACmTTA AAGaTTTTTT AACGGGAAGT TTAAGAAATC 420
 AATAGGATT GGTGCAaCAG GATAATATTT TATTCTCTGA TACAGTTAAG GAAAATATTT 480
 TaCTTGGTCg TCCaACAGCa ACAGATGAAG AAGTAGTTGA AGCGGcGAAA ATGGCTAATG 540
 CACATGACTT TATTATGAAC TTGCCACAGG GATATGACAC TGAAGTAGGT GAACGAGGTG 600
 TTAAATTATC AGGTGGTCAA AAACAAAGAT TATCGATTGC TAGAATATTT TTAAATAATC 660
 CGCCAATTCT TATCTTGGAT GAAGCAACAA GTGCACTTGA TTTAGAAAGT GAATCCATTA 720
 TTCAAGAAGC ATTAGATGTG TTGAGTAAAG ATOGAACGAC ACTTATGTA GCGCATCGCT 780
 TGTCCTACTAT TACACATGCT GACAAAATTG TCGTAATTGA AAATGGACAT ATTGTTGAAA 840
 CAGGTACGCA TCGTGAATTG ATTGCAAAAC AAGGTGCTTA CGAGCATTTA TATAGCATTC 900
 AAAACTTATA AAGTATTAGT TGTTTGACTT CAGTACAATC TTGAAGAGAA AATTGTGAAC 960
 AGGATGGTGG GGTCAATACA TAGAAAAGC AGTAAGAGAT TTTCTTAGTT GAAAATAATC 1020
 TThCTGCTTT TTTAAATTTA ATTTCGNGAT TCA 1053

(2) INFORMATION FOR SEQ ID NO: 797:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 544 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 797:

	AAGAGTGACT CCTGAAGTGA AAGAAGGGGA CCGTGTCTGTG TTCCAACAAT ATGCTGGTAC	60
5	AGAAGTTAA CGAGATAATG AAACATATCT GGTATTAAAT GAAGAAGATA TTTTAGCAGT	120
	TATTGAATAA TACAGAACTT AATTCATAAA TAAATTAAAT AGAACGAAAA TGAAACACAA	180
10	CTAAACAAAT GGAGTTTAT CATTATGTGT TAAACAATTG AAATTCTCTG AAGATGCACG	240
	TCAAGCAATG TTACGTGGTG TTGACCAACT TGCAAAATGCA GTTAAAGTAA CGATTGGTCC	300
	TAAAGGACGT AATGTTGTAT TAGATAAAGA GTTTACAGCA CCTTTAATTA CGAATGATGG	360
15	TGTGACGATT GCyAAGAAA TCGAATTAGA AGATCCATAT GAAATATGG GGGCTAACT	420
	AGTTCAAGAA GTCGCAATA AGACAAATGA AATTGCTGTG GACGGTACGA CAATGCAAC	480
	AGTATTAGCT CAAGCAATGA TTCAAGAAGG CTTGAAAAAT GTTACAAGTG GTGCGAACCC	540
20	AGTT	544

(2) INFORMATION FOR SEQ ID NO: 798:

(i) SEQUENCE CHARACTERISTICS:

25	(A) LENGTH: 372 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 798:

	CAATTGCATA GATATTGCTG ATAGACGTAC GGCTTTGTTT ATCAACTTCT AATAATCCAC	60
35	GGTCAGCGAA TTAAACACCT AATTTCGTCT GTGTTGGAC GACGACCTAC AGTTACTAAT	120
	ACATAATCAG CTTGATTGT TTTCTCTCG CCTTTAGCTT CATAAGTAAC TTAACTCCG	180
	TTATCTGTTT CTTGAGCTGA TTTAGCCATA GCTTCAGTAA CGATTCCAAC ACCTTTTCT	240
40	TTCATACCTT TTTTAACAGG TTGTTGTCAT TTGTTTTTC GAGGCCACCT AAGATATCTT	300
	TAGCACCTTC AAGGGATGGG GTACTTTCTG nAACCAAAGT TAGCAAATGC TGTACCTAAT	360
45	hCTGGTCCAA TG	372

(2) INFORMATION FOR SEQ ID NO: 799:

(i) SEQUENCE CHARACTERISTICS:

50	(A) LENGTH: 1182 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 799:

5 AAACGACATT TGTTAATTG GAAGAATTaG CACCATTtTT TGAGGCGGGT ATAGaTCAT 60
 TTAATAACGA TGTTATTCTA CAAACGGAAG AATATATTAA TGTGTAACG GAACAGTATC 120
 GTCAAGCGAT AGATTGTGAC AATGAAGATC CTGAAATCTA TGAAGATGAG AAATTATGT 180
 10 TGATGGATCC AATTGAAGAA ATTCAACCTg ATCATCGACC ATTTCAGAA GGTtTCTTAT 240
 ATAAACAAC AGTATATTAA GGAGTTAAT CATGAAGACA ATAGAAGAGA TTAATCAAC 300
 TCCTAAAACA GTTATGAAGA AACCAGAATT ATTAGCACCT GCTGAAACT TAGAAAAGTT 360
 15 AAAAAATAGA GTACATTATG GCGCTGATGC CGTATTtTTA GGTGTCAGT AATATGAGT 420
 ACgTTCAaAT GCTGaTaATT TCaCGATGGA AGAAATAGCT GAAGGTGTTG AATTTCGGA 480
 CCGTTACGGT GCCAAAATT ATGTTACGAC AAATATTATT GCACATGATG AGAATATTGA 540
 20 AGGTCTAGAA TCATATTtGC GTAATTtTGA AAAGACTGGT GCGACAGGTA TCATTGTtGC 600
 AGATCCTTTA ATTATCGAAA CATGTAAAGA AGTTGCGCCA AAACCTGAAA TTCAATTATC 660
 TACTCAACAA TCACtTTCTA ATTACAAGC TGTAGAATAT TGGAAAGAG AAGGATTGGA 720
 25 TCGTGTtGTA TTAGCACGTG AGACCGGCGC GATGAAAATG CGTGAATGA AGGAAAAAGT 780
 AGATATTGAA ATCGAAGCAT TTATTtCATG TGCTATGTGT ATCGCCTATT CAGGTAGATG 840
 TACATTAAAT AATCATATGA CTGCAAGGGA TTCCAACAGA GCGGTTGCT GTCAAGATTG 900
 30 CCGTTGGGAT TATGAATTAT TAGAAGTTGA TGATAATGGT GAACCTGATG TTTtTTTATAA 960
 TCAAgGTGAA GTTACACCGT TTGCGATGAG TCCTAAAGAT TTAATAATTAA TCGAATCAAT 1020
 35 TCCTCAAATG ATGGATATTG GTGTGGACTC ATTAATAAAT GAAGGACGTA TGAAGTCAAT 1080
 TCATTATATT GCAACAGTTG TCTCAGTATA TCGTAAAGTC ATTGATGCGT ATGCGCGAGA 1140
 TCCTGACACT TTAAGATTAA TCCGAATGG TTAATAGAGT TA 1182

(2) INFORMATION FOR SEQ ID NO: 800:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 989 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 800:

50 GTATTCTTCC AATAACACCT TTCAATTGGA AACCGTTTAg AAGAATACA GTTACTTCAG 60
 TTtGGTTtGC TTTAAAATTC TCTaGTGCTT TGTCTTGGAT GTTTTCGtTG CAATCATCTG 120

	TTTTCTTTAT CTAACCAATG AACACTCATT TTATTCTTGA ACCATGTCAT TTGTCGTTTT	240
	GCATATTGGC GTGAATGTTG CTTTAAATCA TTGACAGCAT CTTCATAAAT CATTTGTCCG	300
5	TTAATCACAG GTATTAATTC TTTATATCCA ATAGCTTGCA TACTTTGGCA AGATTTCATAG	360
	CCTTGTTCAA CAAGTTGTTG CACTTCTCTA AATAATCCGT GATCCAACAT AATATCAACA	420
	CGTTTATTTA TTCTTGAATA TAATGTTTTA CGGACATTTC CAATCCCTAA TAATAATGTA	480
10	TCATAATTTT CAGTAAATTG TTGCACCTTC TTGCGATTAC TCAAAAGTTT TTTTGTTTTT	540
	AAATAATATT CAATAGCGCG CAACTACTCTT TGGcGGTTGT TAGGGTGAAT ATTTCTTcGc	600
15	AGAAACCGcC ATCAAAATTGA GCTAAATAAT CGTGTAGTTG CTGATTATCT AAATGTTCTA	660
	ATGCAGATAA CTTTGTGTTA ACTATGGATA ATTGTGCAGG TGTAcTGTTT CATCTTCTAA	720
	TTCATAATTA TATATTAATG ATTGAATATA TAAGCCTGTT CCACCTGCTA TGATTGGaC	780
20	TTTACCTCTA TTGCTATAT CAGTAATTAA ATCTTCTGCT AATCGTTTGA ATTCATATGC	840
	TGAAATGTA TCATCAGGAT TCAAGATATC AATTAAATGA TGTCGAATAC CATCCATTTC	900
	TTCAGGTGTh ACTTTTGCAG TTCCAATATT CATATGTCTG TAGACTTGCA TAGAGTCACC	960
25	GCTTATGATT TCACCATTGA TACGCTTCG	989

(2) INFORMATION FOR SEQ ID NO: 801:

	(i) SEQUENCE CHARACTERISTICS:
30	(A) LENGTH: 543 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 801:

	CGTTAGATAT AGAATTAATA GATAATATTA AATTTCAAAA CGGTCAAAAA TTGACTGCAG	60
40	AAAAAGTGAA ATCTAGCCTT GAAAATAGCA TGAAAAAAG CGACTTGGTC AAATATTCAT	120
	TACCAATATC ATCAATTACC GCTAAAGGTC AAAAAGTAC AATTAAGACC AACTCCGCTT	180
	ACCTTGaACT TGTATCTGAA TTAGCTAATC CTTTATGGC AATTATGAT ACAGATGCTA	240
45	AATCAGATGT TAATCAAACT CTGTTGGTA CAGGCCCTTA CCAATAAAA GATTATAAGC	300
	AATCTCGAAA AATATCATTG TCGAATTTTA AGGACTATTG GCAAGGTAAA CCGAAACTTG	360
	ATCATATTAC TGTGACGTAC CAAGAAGACG GCAATAATCG CGTCAGAAAT TTAGAATCTC	420
50	AAAAAGATGA TTTAATAACT GATGTCCAG TTAATAAAGT TCAAGACATA GAAAAATATC	480
	AAATTTTAAA AGTGTCAAAA GAATCTGGAT TTGAACCTC TTTACTTATG TATAATCATA	540

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(2) INFORMATION FOR SEQ ID NO: 802:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1139 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 802:

GCGAATTCGT	ACACACATAT	ACACAAAGAT	AATCATAGTT	TTACATTGAA	GCACATGAAA	60
GATAATTCAT	TTAAAGGAAG	GTATTATCAA	TGACTAAAAA	AATGGGATTA	TTAGTTATGG	120
CTTATGGCAC	ACCTTATAAA	GAAAGTGACA	TAGAGCCATA	TTATACAGAT	ATTAGACATG	180
GTAACGTC	ATCTGAAGAA	GAACCTCAAG	ATTTGAAAGA	TAGATATGAA	TTTATAGGTG	240
GTTTATCACC	ATTAGCAGGT	ACAACAGATG	ACCAGGCTGA	TGCGCTAGTT	TCAGCATTAA	300
ATAAAGCATA	TGCAGATGTT	GAATTTAAAC	TATACTTAGG	ATTAAAAAC	ATTTACCATT	360
TTATCGAAGA	TGCGGTGAA	CAATGTCACA	ATGATGGCAT	TACTGAAGCA	ATCACGGTAG	420
TACTAGCACC	ACATTATTCT	TCATTTTCAG	TAGGATCATA	TGACAAACGT	GCTGATGAAG	480
AACCTGCATA	ATATGGTATT	CAACTTACAC	ATGTGAAACA	TTATTATGAA	CAACCTAAAT	540
TTATTGAATA	TTGGACGAAT	AAAGTCAACG	AAACATTAGC	TCAATACCG	GAAGAGGAAC	600
ATAAAGACAC	GGTATTAGTT	GTTTCGGCAC	ATAGTTTGCC	AAAAGGTTTA	ATCGAAAAGA	660
ATAATGATCC	ATATCCACAA	GAACTAGAAC	ATACTGCGCT	TTTAATTAAA	GAACAATCTA	720
ATATTGAACA	TATCGCGATT	GGTTGGCAAT	CTGAAGGTAA	TACAGGTACA	CCTTGGTTAG	780
GGCCAGATGT	ACAAGATTTA	ACACGTGATT	TATATGAAAA	ACATCAGTAT	AAAAACTTTA	840
TATATACGCC	AGTAGGTTTT	GTATGTGAGC	ATTTAGAGGT	GCTTTATGAC	AATGATTATG	900
AATGTAAAGT	AGTTTGCAGT	GATATTGGTG	CGAATTATTA	TCGTCCAAAA	ATGCCGAATA	960
CACATCCATT	ATTTATCGGT	GCAATTATTG	ATGAAATCAA	GTCTATATTT	TAATGACGAA	1020
AGAAGCGTGA	AACGTTGTGA	CTAAATCAGT	GGCTATTATA	GGAGCGGGGA	TAACAGGTTT	1080
ATCAAGTGCA	TATTTTTTAA	AACAGCAAGA	TCCTAATATT	GATGTAACCA	TCTTTGAAG	1139

(2) INFORMATION FOR SEQ ID NO: 803:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 989 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 803:

5 TATCnAAAT AnAAATGTGC GCATTATCA AACCTTACA TACAATAGAG TTTCCCTAA 60
 CAGTAAATTA GATATTATTA CACCTGTGA TATGCTTCT AATGCCAAAC TGCCAGTTAT 120
 TTTTGGATG CACGGTGGTG GTTATATTGC GGGTGATAAG CAGTATAAAA ACCCAATTATT 180
 10 AGCGAAAATT GCTGAACAAG GGTACATTGT TGTGAATGTA AATTATGCAT TGGcGCCACA 240
 ATATAAATAT CCCACACCAT TAATTCAAAT GAATCAAGcA ACTCAATTCA TTAAGAAAAA 300
 TAAATGAAT TTACCTATTG ATTTTAATCA AGTAATTATT GGCGGTGAYT CTGCAGGTGC 360
 15 TCAATTAGCT AGCCAAATTA CGGCAATACA GACGAATGAT CGCTTAAGAG AAGCCATGAA 420
 ATTTGATCAG TCATTCAAAC CATCGCAAAT TAAAGGTGCT ATACTATTTG GTGGTTTTTA 480
 TAATATGCAA ACAGTTAGAG AAACGTAGTT TCCAAGAATA CAGTTATTTA TGAAAAGTTA 540
 20 TACTGGCGAA GAAGATTGGG AAAAGAGTTT TAAAAACATT TCACAAATGT CGACAGTAAA 600
 ACAATCGACA AAAAATTATC CaCCAACATT TTTATCTGTT GGAGATAGCG ATCCATTCTGA 660
 AAGTCAAAT ATAGAATTCA GTAAGAAATT ACAAGAATTG AATGTACCAG TAGATACTTT 720
 25 GTTTTATGAT GGTACGCATC ATTTACATCA TCAGTATCAA TTTCACCTTA ATAAACCTGA 780
 ATCGATAGAT AATATCAAAA AAGTGTACT TTTCTTAAGT CGTAATACAT CCTCTAGTGG 840
 30 TATTCAAAC GAAGAGAAAC CACAAATAGA AAATCCGAGT AATGAATTAC CGTTAAATCC 900
 TTTAAACTAA TGATAAACAG TAGTAATTTA TTACTTAAAG AACATTTAAG ATTTTCAAAT 960
 TAAAAACGAG AATTTAAAAA ATGTGGTGC 989

(2) INFORMATION FOR SEQ ID NO: 804:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 711 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 804:

45 TAAnCCCTGG TTTAATGATT TTGATTACGT GTTTTTATAA TAAAAACATA TCGAACATTG 60
 ACTACGTTAT TAAGCTGCTT TTTTGATAC TTTATAACCA ATAGCTTAAG ATTTAAAACT 120
 50 AATCGGAAAG AACAAATGATT CACCAAAAA ATATTTATGT TGCTATTAAA AATCAGTTAA 180
 TAGCAATGTT AAAATACGTT TGATTTTCAT TAATAATGAT TCAAGTTTAT TTAATGAGC 240
 GTTAATGTCA GTCTGTTTTG ATGCACCTTA TAATAAGAC AGATAGTTCA AATTACGTAA 300

AAAGCAACAT TAGCATTAGG AATATTAAC TACAGTGTGT TTACAGCAGA AAGTCAAAC 420
 GGTACGCGA AAGTAGAACT TGATGAGACA CAACGCAAT ATTATATCAA TATGCTACAT 480
 5 CAATCTATT CTGAAGAAAG TTTTGAACCA ACAAACATTA GTGTTAAAG TGAAGATTAC 540
 TATGCTCTA ACGTTTTAAA CTTTAAACAA CGAATAAAG CTTTAAAGT ATTTTACTT 600
 10 GGTGACGATA AAAATAAATA TAAAGAAAAA ACACATGGCC TTGATGTCTT TGCAGTACCT 660
 GAATTAATAG ATATAAAGG TGGCATATAT AGCGTTGGCG GTATAACAAA G 711

(2) INFORMATION FOR SEQ ID NO: 805:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 680 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 805:

ATCAGGAAAA ACAGaATAAT GTAAATCAAG CTGTTACAGC TCAAAATAAT ACTAATGAAA 60
 25 CATCAAAAGT ACGGCTAAT TTTGTCAAAT TGAATGATAT TAAACCAGGT GATACTTCTA 120
 TACAAGGAAC AACTTTACCA AATCAATTTA TACTATTAACT TATTGATAAA AAAGATGTGA 180
 GCTCAGTTGA AGATTCTGAC AGCAGCTTTG TTATGTCTGA TAAAGATGGG AATTTTAAGT 240
 30 ATGACTTAAA TGGTCGCAAA ATTGTTCATA ATCAAGAAAT TGAAGTGTCT TCATCAGATC 300
 CCTATTTAGG TGACGATGAA GAAGATGAAG AAGTAGAAGA AACTTCAACT GAAGAAGTTG 360
 GTGCTGAGGA AGAAAGTACA GAAGCTAAAG CTACATATAC AACACGCGA TATGAAAAAG 420
 35 CGATGAAAT ACGGAAGAA CAGCTAAAAG AAAAAGATGG ACATCACCAG GTTTTTATCG 480
 AACCTATTAC TGAAGGTTCA GGTATTATTA AAGGCCATAC CTCTGTAATA GGTAAGGTTG 540
 40 CTCTATCTAT TAATAATAAA TTWATTAACT TTGAGaCAAA TGCTatGGTG GtCCaAATaA 600
 AGAAGaAGCG AAATCTGGAT CAGAAGGAAT CTGGATGCCT ATTGATGACC AAGGATACCT 660
 TAATTTTGAC TTCCAAACGA 680

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(2) INFORMATION FOR SEQ ID NO: 806:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 950 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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GTATTTCATT AGCCATTGGC AATTGACATC TGCAATGAG GAATGGCTTT TGCATTGGAA 60
 TTCACAGTTG GAGTGCATTT ACTGGTTATT TTGGAGGTCA TTGTGATAC ATTATTAAATG 120
 5 GAGAATAACC GAATTTGTTA TGTATTTTCC ATTTTAAATA TTGCAATTG TATTAATGC 180
 TGCACCTTGA GATAAAATTA AAAATCCTTA TGGATCTGCC ATAATCTTG TTCTAGTTAT 240
 TATCGTATTA AGTTGGGGAG GTATTGACAA GACTTGTTCG TGTAAAGTA CTTCAGAAA 300
 10 AAGAAAATGA ATACTTTTGG GCAGCAAAAT CAATTGGTAC ACCCATATAT AAAATTATTT 360
 TGAACAATCT TTTGCCGAAT ATATTAAGTG TAGTTATCGT ACAAGCAACA TTGTATTTTG 420
 COGSTATGAT TGTAGTGGA TCAAGGTTGA GCTTTTTAGG ATTGGGAATT AGTAAAGCAA 480
 15 TACCATCTTG GGGTAATATG TTGAGTGATG CTCAAGAAGG GGATGTTATA AGTGGTAAAC 540
 CGTGGATATG GATGCCACCT GCTATAATGA TTACATTAACT TATATTAAAT ATAAACTTTG 600
 TAGGGGAAGG GATTAAAGAT GCTTTTAATC CTAGAGGTAG ACGTTAAATA ATAAAGAGG 660
 20 CACTAGTTAA TTCTAGTACC TCTTTATTTT ATCTCTTACG TCTTAAACCC ATCGCTTTTT 720
 CCATTTTTTT GACAGTTTTA AATGAAACTT TGTGTGCTyT ATCTCTACCT TGATCTAAAA 780
 25 TATCAyCAAG TTTATCTGAG TTATAGAAAC TTTCGTATTT TTCTTGAAT TCTACTAAAA 840
 ATGCTTTAAC TATTTCAACA AGGTCACCTT TAAATTACC ATAACCTTCG CCTCATATT 900
 TTGCCTCAAT ATCTTTAATT GGCATGCTG TTAATCCAGC GTATATTGAA 950
 30 (2) INFORMATION FOR SEQ ID NO: 807:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 418 base pairs
 (B) TYPE: nucleic acid
 35 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 807:
 40 GTTACCAATC GAAGCTTTAC GACCTGTTAC GAAACATTGT TTACCCATAT GAGTACCTCC 60
 TTTAATAAAT ATAAATACAC ATAACTACTT ATATACTTAA TTAAGATAGC ATAGTTTCAT 120
 45 TTGAAAAACA ATGAATAATT TTCACATAAA AGTCAAAAAA ACTGAGTTTT GTGATATAAT 180
 TGTAGACTGT GAAGTTATGT AGTATGATAT TTTAGAGAAA TAAGTGAATG AAACATTTAA 240
 AATTTTTATT TATGATACT ACATCTATTA AAAGAAAAAG CCTATAGATA ATCGTCATGA 300
 50 GTGTAAATTC AGTTTACTCA AcatATAaTA GkGaTTTAA gCgTAAGtCa TTCTGATAAG 360
 TTGTIACCATT GATATTTTAT GAAATanTcn ATGAACTTAA AGCGTTTATG CTACACTA 418

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 842 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 808:

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10  AATGGCnATT AATCTTTAAT ACGATGCTTG AGGATTTTTC CTAATAAAAC CTTGATTTCTn 60
    AAAAGGGTTT AATCnAATG AACCAATAAT AAAAAAATGw CGCAATATAA TAATAAGTAC 120
    AAAATTAAAT AAGAAATTAA ATTGATTGTA TATGTATATT TTGTAACGT AAAAGAGAnA 180
15  TATACAAAAT AATTAAATTAT TTATATGAAA AGAGAATATA AATGAAGTAT AAAACAGAGA 240
    GACGTGAAGC GATGGGATAT TTAAnAAGGT TTGCATTGTA CATAAGCGTT ATGayTTTAA 300
    TATTTGCGAT AGCAGGTTGT GGCAAGGTA ATGAAACAA AGAAGATTCA AAGGAAGAAC 360
    AATCAAAAA GAGCTTTGCG AAAACATTAG ATATGTATCC AATTAAGAAT CTCGAGGACT 420
    TATACGACAA AGAAGGATAC CGAGATGGCG AATTAAAAA GGGTGATAAA GGGATGTGGA 480
    CGATATATAC AGATTTCGCC AAAAGTAATA AACAAAGTGG ATTGAGTAAT GAAGGTATGG 540
    TCTTATACTT AGATAGAAAT ACACGGACTG CAAAGGGACA TTATTTTGTT AAGACATTCT 600
    ATAATAAGGG CAAATCCCA GATAGAAAAA ATTATAAAGT TGAATGAAA AATAATAAAA 660
    TTATCTTATT AGATAAAGTA GAAGATACAA ATCTAAAAA GAGAATAGAA AACTTTAAAT 720
    TTTTTGGACA ATATGCAAAc CTTAAAGAAT TGAAAAACTA CAACAATGGT GaTGTCyCAA 780
    TTAATGAGAA TGTTCCAAGT TATGACGCAA AATTTAAAT GAGCAATAAA GATGAAAAATG 840
35  TT
    TT 842
  
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(2) INFORMATION FOR SEQ ID NO: 809:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 451 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 809:

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    TAAGACTATG CCATCTTGGC AACGCGTTGT CGCATATTCA TTATTAGTAA GTATATGCAA 60
    GCATGATTTT GCCATAAcT TACcCtTTC TATATTTAAG TACCACTTTT ATCCATTCCCT 120
    ATAATATTTA ACTTATTTAA TTAACGTAA ATTTAACACA ATACGAATAC CAAATCAAAA 180
  
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AAAAATAGAT GTAGTCAGTT TAATTAACT ATCCAATTGA AACACACTA CTTTTAGTA 300
 TTTTCAAAT AATTTTAAAT GACCACATCT ACAACGTATT ACTATTATCT TTTGTTAGTT 360
 5 ATATATTCAT TTTCAATTTA TAAATAACA CTTACTTAA TCACATTCTA CTTTGAGAT 420
 GAGCTCAAA TAAATTTAA TTGTTTATAT T 451

(2) INFORMATION FOR SEQ ID NO: 810:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1499 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 810:

ACATTTTGTG CTGTGTGTC AATCCAATT CTACTTTGTT GAACAGTATG AGTTGCTTGA 60
 CCACGCATGT TACTCAGCAT TTGTCCAACA TGAGTATTTT GAGCAAAGTT ACGAGATTGA 120
 TTCAACACAC TGTTTTTCAT CATTnCCATT TTAGGTGAAA TACGACTAAC TGCTTGTTGC 180
 25 ATTGTCTTTT GCAATCTGT TTTAACTGCA AATTTTCTC CGCCTTGAA GCCTAATTC 240
 ATTAAACTTT TCCAGCACC TTTGAGGAAG CCCATACCTG GCAATGGAAT AAGCGAAAGT 300
 CCTTCCATGA TTCGTTCTTC TTTAGATAGC TTTCTCCAG TTACAATATT TTTTCTGTG 360
 30 GCTGCATTG CTGCTGAATA AGCGGAATAA GCACCAATAG CTACTGTCTC AGCAACAGGA 420
 TTAATCAAG ATAAAACTAC CATACCAGCT AGTGCTGCAA TCTCTATAGC TTCTTCTTTT 480
 TTCTTTTGCT CCTCTAGCTC TTCGCTTCA GCTACTGTCA TGTAATCACA AGAAGCGCCC 540
 35 TGAGTCATCA TTTTTCAAA ATCACTTTTA GATAATTCT TATCTTCTTT TTTCAATTTCT 600
 TTGTAATGCT GATCAATTAC TTTTACAAAT TCTTGATCCG ATTTTAATAT TTCATCGATG 660
 CTATAACAT CGCTGTCACT TTTCTTGGCA TCTCCCTTG CAATTTTCCC AGAAGCCCCA 720
 40 TAGGTATCTC TACCATGTCC ACCACCATTT TTAATTAGTA TATTTTCCAA TTTAACATTC 780
 GTTATACCTT TGAATGCTTT ATCTATATCT TCTATAAATG GCGTGTCAAT AATTTCTTTC 840
 45 ATTTTCGAAT CTAATTGAGA TGCATAATCA TATAACTCaT TTTGATAATA CCCCATTAAT 900
 TTAGATCCTT GTGGACCTAC TACACTACTT GTTAATGATA TTGCGCATC TTGCTCTAAA 960
 GAAGTGACAT CGCTTACCGC ATCATCCATT GTTGATCTA CATCTAAGAA GTCTTGACCC 1020
 50 TCTATTGCAT CTATTACACT TTGGATAGAT GACTTTTCAT TGTCATAAT AGCTGTTAGA 1080
 TATTCAATAT CTTTGTGCAT GTCATGCACC TATCCCTCAA TATTATAGTA AAGCTTGGCA 1140

CCACCGAGTG TACTCAATGG ACCTTTGAGA CCACTAATGA CTGTTGCAGC ACTACTATAG 1260
 CCATTTTCCA TAGAATGTGC AGCTTTTCA CTACTGTAGT AATTAAATTG CGCTATTTTT 1320
 5 CCAAAGTTTT GAGCTATTTT ATCATACTTT TGACTTATGC TTTCCAATTC TTTTACAACA 1380
 TGTGCAATCG TTTGAGCTTT AACACTAATT TTTCCACTCA ACGTCATTAC TCCTCtGtTe 1440
 TATTAAATATG ATTTTATCA GTATCGAATC CAAATAATTC TCGTGATAAA nGTATTGAA 1499

10 (2) INFORMATION FOR SEQ ID NO: 811:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 620 base pairs
 (B) TYPE: nucleic acid
 15 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 811:

ChCGCTGCAC CGAAGAATGC TTTTGGTTTG TGTAAGATG CAGGATCTAA ACCACCTGAT 60
 AATGTACGAC CACTTGGTGG AATAACyAAG TTATAAGGCG GTGCTAATCT CGTTATAGAA 120
 25 TCCATTAAAA TAATGACATC TTCCCAATT TCTACTAAAC GCITTGCACG TCCAAGTAAT 180
 AATTGAGCTA CTTTAACATG GTGTTCTGGT GGTTCGTCAA ACGTTGAATG AACGACTTCA 240
 GCAGCTTCTA CTGAGCGTTC TAAATCTGTT ACCTCTTCAG GACGCTCGCC AACTAACAAA 300
 30 ATAAATAGCT TTGCATCTGG TTTGTTTCGTA CTGATTGCAT TCGCTATTTT TTTTAATAAC 360
 GATGTTTTAC CTGCTTTAGG TGGCGCCACT ATTAACCAC GTTGACCTAA ACCAATCGGT 420
 GTTACTAAAT CCAIGATGCG CGTTGAATAA TTTTGTAITT CTGTCTCTAA TTTAATACGC 480
 35 TCATCTGGAT AAAGTGGTGT CAAAGCTTGG AAATGCGGAC GTTCTCTCAC TTCTTCTGCG 540
 TTATGGTCAT GACAAAGTCA ACTTGTAATA AGCCATAATA TTTTTCGTTA TCCTTAGGTT 600
 TTCTAACTTT CCCAGTTACT 620

40 (2) INFORMATION FOR SEQ ID NO: 812:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1094 base pairs
 (B) TYPE: nucleic acid
 45 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 812:

CCGGCTGAAA TTAAGTTCTT GTTATATTC GCAAAAATGA CAAAGAAA GA TAAAAATAA 60

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TGAACATATT GCAATTAGAG AATTGTTAGA GAAAGGTTTG ATTGGTGATT GTATTCAACC 180
 TATAATTGAA CCAATTAAAT ATACAACCAC ATTTAAAAAT ACTTTGCAAT ACTGTGGTGA 240
 5 AAAAGCATTCT TCTATAAATT TAGTAGTAAA TTCAAAGTTA ACTGAAGAAG AGATTAGTAA 300
 CGAAaCTGTt GCACATTAA CTGAAATAAT AACAAAAAAC AAAAGTGTTA TTCAAAAAGC 360
 TTACTTGGGT CTTCTGATG AAGCAATGA TAGGTTGAAA CAGCAATTTT CAAGTAATAG 420
 10 TTTAGCTATT TTAACAAGTG TAGATGATTG GGAATGTTT GGAGATAAAA ATAAACTTGA 480
 AATGGTTTTT GTACCAGATG ATAGACACAT TAAACGTAAA TTGCGTAATA TTCCAAACAA 540
 15 AGGCATsATT ATGGATCCCT TTAATAAACT AAGTCGTAAT GTTGATTATT TAGATAATGA 600
 TGACGAGTTT TATAGCGAGC ATCACCTTTA TTATAAGGAA GATGGATACG TAGCATTITC 660
 AGACTATTCT GTTATAGGTG GAGAATATGT AGACGGTGGC TTTCGCCAT TAGCtATTGc 720
 20 GrTACATATT GTCTATTTTG ATGAGGCTAA TGAGCTAAGA GTTAAGCATT TtGTCTCTGa 780
 TTCTAATAAT GATAGATCAA ATCCAGGTAA AAnGTTTTT GAGGCTGTAG ATAAATTAGT 840
 AACATGGTCA AAAAaCTTAG ATATTAAAA TAGATCTTAT GCGCTTGGAC AATTTTGAAGA 900
 25 ATTAATGAA ATAATAAGT ATCCAGGATT AGGTTTAAAT AAAnGTTATC TATCAGCATC 960
 ACCTAGAAAT TATGAATAGA TACTGGGTCT CAAAGAAATA GGAAAAGTTT ATATCGAACT 1020
 30 GAACTGCAAG AATGCAITGA CATGGATGAA CACACGGGTA AAATGATCGC AGCTGAAATG 1080
 ACTATGGTAT TAGC 1094

(2) INFORMATION FOR SEQ ID NO: 813:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 930 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 40 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 813:

45 CACCTATCAT CGTCTCTTTA ATTCTATCTA TCTATTACC CCAATCGTAA ATATGATGGA 60
 CGTTATAGAA TACCAAGAGT TGCAGGTATn TCTATTATT ATCTAGCTGT AGTAGGTGTT 120
 ATTACGTTAA TTGTTAATTT ATTGATACCT ATTATTGGTT CGCAAGTAGA TAGTTTAGTT 180
 50 AAAAAATCAC CGCAATATCT AGAAAAATTA ATTAATTCTA TTGATAAAAT AGCAATAAT 240
 ACGTTTTTCT CTTCGTATTA TAGTCAAATT AATGATTGGT TAAATCTTT ACCTAAGAAA 300
 ATACCATCTA TGTTAAGTGA ATTTACAGAT GCGTTTGGGT CTAAAAATGC AACCTTTGCA 360

CTTAAAGATG GACATCACTT CAAAGAATTI TCAACGAATA TTATGCCACC GAAATTCGA 480
 AAGATTTTC ATGACTACT TGAAAAAATG AGTGTCAAG TTGGTTCATA CATTCAAGGA 540
 5 CAAATTATCG TTTCATTCTG TATCGGTATA CTGTGTGTTA TCGGTATTC GGTATCGGG 600
 TTGAAATATA GCTTAGTATT AGCTAGTATT GCGGCAGTTA CAAGTGTGTG ACCATATTTA 660
 10 GGGCCTACTA TAGCGATTTC TcCAGCTATT GTAATGCTG CTATAACaYc GCCGTGGATG 720
 CTCTAAATAT TAGCAGTAGT ATGGACTTTA GTACAATTG TTGAAGGGCA CTTCATTTCa 780
 CCAATATATCA TGGGTAACAC ACTTAAGATT CATCCACTTA CAATCAITTT CATTTTACTG 840
 15 TGTGcAGGCA AATTGCTTGG TATTGTAGGC GTATTITTAG GTATTCCGGG ATATGCTATT 900
 TTAAAGTAT TtAGTTACTC ATTTATTCCA 930

(2) INFORMATION FOR SEQ ID NO: 814:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 461 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 25 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 814:

30 GTATGATTGC TGTTTTAATA CCAGATGATG GCAGTGGCAA ATCTTATGAC TATATGCTTG 60
 TGAACCCAAA AATTGTAAGT CATAGCGTTC AAGAAGCTTA TTTACCAACT GGTGAAGGTT 120
 GCCTTAGTGT CGATGATAAT GTTGCTGGTC TAGTTCACCG TCATAATAGA ATTACAATTA 180
 35 AAGCCAAAGA CATCGAAGGT AATGATATAC AATTACGACT AAmAGGATAT CCAGCAATTG 240
 TTTTCCAACA TGAAATTGAC CATTTAAATG GTGTAATGTT CTATGATCAC ATTGACAAAG 300
 ATCACCCATT ACAACCACAT ACAGATGCAG TAGAAGTTaA aACACATTTT cTAATTATCA 360
 40 AAgCTTAGGA TAAaATGATG tCCTAAGCTT TcCTTTACAA CTTTTCGGAT AACCAACAGT 420
 TAATATATCA CCTTCTAACC AAaCTTTTAA TCCCTCATTa A 461

(2) INFORMATION FOR SEQ ID NO: 815:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 573 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 50 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 815:

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	AACGATATAA TAGAATTGAA TAAAGTGGGT GATAATGTGA CTAAAAATGA GATTAGAAAA	120
	TACATTTTAC ATAAAAAGAA GAATTTTAAT AAAGCTGAAA AGCGAAAAGC AGACACATGG	180
5	TTAAGAAATC AATTTTTTGC AACTGAAGAA TACAAAGAAG CAAACGCAAT TGCCTAGT	240
	CTTCTTTTA ATCATGAAGT AGATACTTTT TCTATTATTG AACAAGCCTT AATGGATCAT	300
	AAACGTATT TGTACCGAA AATGATTAT TTAATCATC AATGACTTT TAAAGAGATA	360
10	TTTAATCTCA AAGATATTGA TGTGATAAT AAGGGGATT ACTATCCAAC TTCAAAAGGT	420
	GAAACAACGA ATAACCTAGA TTTAATTGTT GTTCCTGGTG TTGGATTTCAG AGACGATGGA	480
	TATAGAATTG GGTATGGTGG TGGCTATTAC GACAGGTTTT TAGCTAATTA TCAGACAAAG	540
15	ACAATAAGCT TATTATACGA TTTTCAAATA ACA	573

(2) INFORMATION FOR SEQ ID NO: 816:

20	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 3989 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 816:

	TAGTTTAAAC ATGCTCTATTC TCATAGAATT TGTCCAACTA AATGTAGACG ATTCACTAAA	60
30	CTTCTAAAAA AATAAACCCC AAATTATAAT AGTCTCAATA TTAATATATT ACAATTTATT	120
	CATAGGATTT TTATCATTTT AATTAATAGG TTGTTATCAG GGTAAATAA ACAATTTTTG	180
35	TAATAGTCCT TTTTACGTT CTTTAAATAA CTCATTTCTA TTCATTTGAT TATTCATTTT	240
	ATTGCTCTATA GATTTTAAACA ATGCACTTAC TTTATCTGT TCAGTGAGAC AAGGTATTTT	300
	AAGATTTATA TTGCATAAGT TCGCATGAGT TAATTAGCT GGTGCATTAC CTGTGACAAA	360
40	TGCTCGTAGT TCTTTAAAAA TTAATAATAA ATTCATAAAA AACAAATTAT GATCATTACT	420
	TTTAACTACA TGGCGATGAT TATTTACCCA GTATTGCCCA TTAGCAATAA AGCTACTCGT	480
	CTCAAACTGC CCCCATTGTT CACCATCTTC TCCTATTAGT AATCGTTCTT CATTATTGAA	540
45	TAAATAATCT TTTAGCTAAT CAATAATTCC AGTTGCACCA TAGTAAGGGT ATAACCCCTT	600
	TTCTCTTAAT GAAGAAGTAA TTGGTTTCT TCTATTATT TCAAAGATAA AGATGCTTTT	660
	TATGAATTTG TTTTCCCACT CTGGATATTC TTCACCATC TCATCTTTGA ATCGCAATTC	720
50	TTGTGTGAAG ATTTTCTGCA TATAGCCTTT TTTCTGTTG TGAAGCAATT CAAGTTTTTG	780
	TTCTTCTAAT TCAAATTGTC GGTGAGTTT GCTGAAGAAC TTGCTTATT TTTGCTGTTC	840

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	TCGACTACCT CCACITTTGTG CAAGGAAAT TTTCTTTTA CCTTTCTTG ATAATAGATA	960
	CTGTCCAAA AAATTATAAT AATACTCTT TTTCAATCTA ATAATACATA CATGTTGATT	1020
5	TAAATTAGCA TGGGTTTCAA CTATCGAATT AATGGCTGT CTACCTATTG ATGCTCCTGT	1080
	AATAITTTAAA AGAACATCAC CATAGTACGT TCTACTATT TTCATCTCAT CATCTATATC	1140
	TTTACTAATA TAAACTAAGT CATTAGATT TAATTACCA TTTCTAATAT TTTGACTCCT	1200
10	TAAAAATGGT ATGCCITTGT TTGTATAGTT TTCACITCCA CCTTTGGGAG TCTTTCCACT	1260
	ACCTATTTTG GTAGTAAGAT TCCCTAACTT CTCTCTTCC CATTCGCCTT CAAATCCTGG	1320
15	GAATCTCAAC TCTGGCACAT TTTTGGTTTG TGTATTACTC ATCTTTCAAC ACCCCAAGTT	1380
	CTTTCAGGTA TGCATTGATT TCTTGTTCAA TTTCTGCGAT TTCTTTGTCG ATATTTTICA	1440
	AATCTTGTTG GACTTGATCT AAATCAATTG GTGCTTCTTC TTCGAATGTA TCAACATATC	1500
20	CGGATATGTT TAAGTTGTAA TCGTTATCGG CGATCTCTTG TAATGTGCGC CTGTAGCTAT	1560
	ATTTATCAAT CGTTCCTTTA CGCTTATATG TGTCTATAAT ACGTTCGACT TGGGCATCGC	1620
	TTAAATGGTT TTGATTTTTT CCTTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT	1680
25	TGTCGTCTTG TTGGCGACAT TTTTAAATA CTAAAATACA TGTTGGAATA CTGTGCCAT	1740
	AGAAAATATT GGCTGGTAAC CCAATCACGG CTCTAAGTA GTTCTTTTCT TCTATTAAAT	1800
	AGCGACGAAT CACACCTTCT GCGGCACCAC GGAATAATAC ACCATGTGGG aGTACGACTG	1860
30	CCATGGTACC TTCATCGTCT AGGTAATGTA CCATGTGTTG AATAAAGGCA AAGTCTGCTT	1920
	TGGaTTTTGG CGCAaGCTTG CCGTAACCAC TGAATCGTTC ATCATTTTCA AATTTTGAAT	1980
35	CTGCTGCCA TTTGCGACTG TATGGTGGGT TCGCAATAAC CGCATCAAAT GTATTGCCTA	2040
	AAAAGGCTGG ATTTTCCAAT GTGTATCAT TACGGATCTC GAAGTTCTCA TAACGCACAT	2100
	CATGTAATAA CATATTCATG CGTGCTAAGT TGTATGTAGT ATTGTTACGT TCTTGTCCGA	2160
40	AATAACGATA CACTTGCCTT TCTTTACCAA CAAGTAACAA CAATGAACCG GAACCATATG	2220
	TTGGGTGCTA CAGGTGACGT AATTTATCTT TACCGTCTGT GACAATCTTC GCCAGTATCT	2280
45	TAGATACCTG TTGTGTTGTA TAGAACTCGC CTGCTTTTTT ACCCGcTGTC GCCGCAAAGC	2340
	GCCCGATTAG GAATTATAT GCATCACCTA ACATATCAAT TTCCATGTCA CTGTGAACGA	2400
	ATGTTAAGTC GTCAAGATTa ACCATGACTT TAGAGATTAA AGCAGTACGT TCTTTGACAT	2460
	TGTTACCTAG TCGCGTTGAA CTCAAATCCA TATCGCTGAA CAGCCCGATA AAGTCATTTT	2520
50	CACITTCCTC ACCTAATGTA GATGTTTCAA CTTTGCGAAT CGCCGTGCGT AGATGTTCTA	2580
	TATCGAAATC TTGCGTTTCA ATTTACAGAA TCATCGCACT GAATAAATCT TGTGGCTCAA	2640

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	CCCATGCTTC TTGATACGTG ATGTCTTCAC CTGACAAGGC ATCTGCATAT TCTTGTTCGG	2760
	CTTTTTTCAGA TAAGAAGCGA TAGAAAAATCA AGCCTAAAAT GTAATTACGG AATTCACCTG	2820
5	CATCCATGTT CCCTCTTAAA TCATTGCGAA TCGACCATAA TTTTATATGT AATTCAGCTT	2880
	GTTGCTGACG TTGTTTTTCA GTAATAGACA TGTGATTCTT CCGCCTTTGC ATAAGTAATT	2940
10	TATCTCTTGS TGTAATAGAT TTATTATAAC ATTTGGTATG GTTGCAGATG TGATAATTGG	3000
	GATGTTGTGG GTGGAATTTT TGAGTTTTAG TGGCGCAATT GTTATTGAAA AATTTTATAG	3060
	AAATGTTGTA GCTTTCAAAT GCTTCAAAA TCATTATAT TCTTAATGAT GTCAAAAAGT	3120
15	TGTTCACTCA TACATAAATA AAACCAATCA ACAATTGAGT TGGTGAAAAA CAATCGTTGA	3180
	TTGGCTTTGA TGCATATTAA ATAATGCAAT ATATATTAAAT AAATGTTAGT TATAGTATAT	3240
	TTTGTGAGGA TTGGGTGAAT GTCTAAGTTT TAATTATTTA TCTAAATTAT CTGCAATGAA	3300
20	TTTCTTAATT TCAGGAGAGA AATAAACAGC AAATCCTCTT GTGCTTTCAC CTGATGGCTT	3360
	ATTACCGCCA TAGATTACAC CAATAGCTTC GTGTTTACTA TTTAATATAG GTGAACCGA	3420
	GCTACCAGGC TGAATAATTG CATCCGATGA CACTATATTC CCATTCACTG ATAATACTTT	3480
25	ACCAGTTGAT TCATACATTT GTAGTTTATT TCCATTAGGA TTTGGATAAC CAATGACTGA	3540
	TATAGGTTCA TTTTCTTAG CTCTGATGC TATATTAAAT TTACTAGTGA AATCTTTGAA	3600
	TTTTCACCTT TTTGGTTGTG TTGATTTTTC TTCAACTTGT ACAACCGCAA TATCTTCTTT	3660
30	ACCAGGATAA TCTACAATCT TAGTAACCTT ATAAAGTCCA CCACCGTTAT TATAAAAACC	3720
	ATTAGGATGT GCTTTGATTT CATCACCGAC TTTCATGTGA TAGGTAACAT GTTTATTGCT	3780
35	AATGATTGTA TGATTTCCAA CTACAAATCC TGTTCCAGCG CCCATCCATG TAACACCACT	3840
	GTATGTTGCA ACATTTGTAT TTGTAATTGG TTTAACAGTA TTTTCGSGCTT TGGCTGTTG	3900
	TTGAATACCT TCAACCATTG TTGTGCCGAC ACCAGTATTG GATGTTAAAA TCGTCAATGC	3960
40	TGCAATACTT TTGATGATTA TATTTTTAT	3989

(2) INFORMATION FOR SEQ ID NO: 817:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 904 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 817:

CGTTGAGCAC AGTTTATAGAT AATAGATAAT CTTGCTCTAG TTGTTGCAAT GTCTGCGATT 60

	TATGCGTGTA	ACGTTCAAGT	ATCGTTTCTA	AGGTATACTG	AGATGTATTT	AAATGATATC	180
	CITTAGATTT	AATACTTACG	ATGATATCAT	CCATAAAATT	GCTATTGATA	ACATGGATAT	240
5	CATTGCGAAC	TGTGCGGTTT	GAACACATTGA	CATGTTTAGC	AAATTCATTA	GAACATAATGT	300
	GCTTTGATGG	ATTTTAAATA	AAAACTGGA	GTAGTTTTAA	GTGTCTATCA	AGCATTTAAC	360
	ATGTACCTCC	TTCTAAATT	TTTCGTGTA	CGGTTTTTAA	GGGTGTATTA	ATATTATTAA	420
10	ACATGAGAGC	TTATACATAC	GTCAATGACA	TTAAAGCGAA	CTTTTATATG	ATTTTAACAG	480
	AGTGCGAATT	ATGCAAAATA	AGAACAGCAG	TAAGATATTT	CAAAAGAGAA	AAATATCTCAC	540
	TGCTGTTTTT	CTGAATTTAT	GCATCTGGTA	CTTGTCGACG	TATCAGGCAA	ATGATTAAAT	600
15	TTTAGGTGAT	TGTGCTTGAG	GTGTTTGTTT	AGAAGGCGTA	TTGGTATTAT	TTGATTATTT	660
	AGCAGGTGGT	GTGTCTCTGT	GTTGATTATT	TTGGTTGTTT	GTTGACGATT	GACTGCCACC	720
20	ACCGTGAGTA	TTATTTTAT	TTGAATTGA	GTCTTTTGGC	TGAGCTGGTT	GCCTATTCCA	780
	TGGTACTGTT	GAATGTTGT	TAGGAACATT	TGACGGTGAA	GATGGTTGAT	TGTCATTAGT	840
	AACGTTATTG	CCATTATTTT	GATTCTTATC	TGTTTGTCT	GCATCATCAT	CTTGTTGATC	900
25	ATTT						904

(2) INFORMATION FOR SEQ ID NO: 818:

	(i) SEQUENCE CHARACTERISTICS:
30	(A) LENGTH: 1104 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 818:

	TTTAACatGa	TAATAAAAAA	TCITTTTGTTA	TATCATTAGG	AATATTGTAT	GAACCTGATA	60
40	TTAAGGTAC	ATTTTGAGAA	ATGGACTTAG	GGATATTTCC	ACTATTATTT	AGTAAGAAAT	120
	CTTTAGCTAA	TAAAGATTTT	CCTACACCAT	TTTTACCAAC	AATGTGATTG	ATCTGACCAA	180
	GATAGAAAAT	TAAATCACAA	TTGTCAACTA	GTTGTTTGTT	TTTAACITTTT	AAAGAATAGT	240
45	TATTTAGTTT	CATGTATACA	ACTCCTATGT	ATAAAGGGAT	TTATTACACC	GATATTTAAT	300
	TGTATTTTAA	AAAATTCCTT	CACATTATGT	ATAGAwGTTA	TAAATTAGTA	TATCaCACTA	360
	TATTTGkCT	AAATGATAAA	TATATCGTTA	TATTTTACAA	ATATTCTGAA	ATTTATGTTT	420
50	GCCTCTGAAT	GCTATATCCA	GTGTAATGTG	TTTTGCATAT	ATGAAAGCAA	TTTCAAAATG	480
	TGAATATAGG	TTCAATTGTTG	TATGACAAAC	TTCAATTGCTT	GTCAATGAGAT	GGATATAATG	540

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GACGGGACGT TTTTAGATTC AAAAAAGACA TATGATAAAC TTAGATTTGA AGCGATTTTT 660
 ACTGAACTTA GAAATAGAGA TATTACATTT ATTGCTGCGA GTGGCAATCA ATATGCGAAG 720
 5 TTGAAGTCTA TTTTCGGGGA TAGAGATATG TATTTTATTT CTGAAAATGG TGCAGTTATT 780
 TATAATGGCA ATGAGTTATA TAATTATAAA AGCTTTAATC GTCAGGTGTT TCAACAGGTT 840
 GTCGATTACT TAAATATGAA GCAAAGTATT GATCAACTCG TCATCTGTGG TTTGAAAAGC 900
 10 GCGTATATTT TAAACATAC TTCTGAAGCG TTTAAAGAAG ATACGAGATT TTATTATCAT 960
 CAGTTAAAAG AAATTGACAG TCTACAGCAA TTACCTGAGG ATGATTATGT CAAATATAGCA 1020
 15 TTTAATATTA ATCGTGAGAC GCATCCGAAT GTTGACGAAG AAGTAGCAAC GCAATTCAGC 1080
 AATGATATTA AACTTGTCCT AAGT 1104

(2) INFORMATION FOR SEQ ID NO: 819:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1425 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 819:

30 CCCnTTTTAC GGATTAAnGG CTTTTTCCTA TTTAAACCTT ACGGCATTTT CTTTTCAACC 60
 ACGGGGGCTC CCATATGGAT GGTATnGGGA TTGGGGTTTA TAAAATGGGG ATTGGAATG 120
 GTCACCTCTA AATACTCAGT TTAGTGCTTA TTTCTTTAG TGCTGACGAA TAAATATGAT 180
 35 CTAACCTCTAC GAAACCTAAT AACGTATCAA ATGCTTCATC ACCATTTTCA AATTACTCTA 240
 AACTATTTTT AAAATCATGT CGCAAATCCT CTAATATAG TGATGGTTTT CGATCTACAT 300
 ACATTTTAT ACTAACCTCC GATATATAAT CATCTTTATT GTACCTAACA TTTTATTAAG 360
 40 ATAATACTAA TACACTATCG AACTTTGGGC TGATACTGAA ACAGACAAAA GAAACTCAAA 420
 CAATTGCAAT TATGATCAA AACCTTCAAT TACAGGAAGT GATTTTAAAA TGATTTAAAG 480
 CAAAAAACA CCTGTTACCG TTATATAGGT ACAAGTGCTT AATTGATAGA GATGTTATAC 540
 45 GTCCTTAAAT GATTCCACAA CTTTGGATG TGGACCATCC ATAAGCGGTT CTCCTTTGTCG 600
 AACGCCACCA CTTTGGTTGC CAATTGATTC GCTATCAAG TACGATTTAT CTGATTGGA 660
 TTGTTCTTGA ATATGTTCTT CATTATCAGT TGTTGCATAT TCACTATCCA CCTCTGTTTT 720
 50 TTCCATTGTT GCTGTATGGA ATGTACGAA GTTCTCTTCT TCTAATGCTT TGATTTCTTC 780
 TTTGATAAC GCTCGATACC AATCTTTCGC TTTTTTCGCC GCAaTAGGAa CAaCaTCTTT 840

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	TACTTCAAAT TCITTTCCATT TTTCGGGGTA ACCTTTTCATT GTAAAGGGCA TTCCCTTAAC	960
	CTCCAATATG TTATAATTCA TGTATATAC CACCATAAAT ATAAATGAA ACATATTAAA	1020
5	CACAATTTTT TAGACTCCCG TCATAATAAC TTCAGACAAA CGTTAGTCTG ACCTGATAAA	1080
	TATTTAATTT TAAACGTTCT TGTCTCTCTC ACGAAAACCA TTGTGTTGAA TATTCATCAT	1140
10	TGCTGATTGA ATATAATTAT ACTGTGGTAA ATCTGTAAT ATCTTTATTT CTAATTCGT	1200
	ATTTAATTGC AAATGCTTAG CGATGTTTTT AAATATTGCT AAATACTCGC CCAATTAATTG	1260
	TTCAATTATTT GTAAGTCTAT CTTCATTAGC CATGGCTCTA TTAAACATAA AGCTAATTTT	1320
15	TTCTAATGCG AATAAGCTAG GATAATAAAT TTGAATCAAT GTCTTATCAC TAAATTAATTC	1380
	ACCATTAGCT GCATTATAAA CTTGCGTGCA TGTATTTTAA TTTCG	1425

(2) INFORMATION FOR SEQ ID NO: 820:

20	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 1165 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
25	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 820:

30	nCGnCCCTTAT ATATGTTTTT CATGTCCTAC AAAAAACGAA ATATTCCAAT TGCCTATATA	60
	CAGATATTCA TTAATGACAC ACTCAATAGC AACCATNACA ATATTATGTT ACCTATTTAA	120
	ATGAATAGT TCTTTTAAAG AAATACATTT TTCACATATT AATCTATAAT CAAATCAAC	180
35	TGACCGATAT TCTATAATTT ATGATTAAAA TAAGTTATAA TATAATAGTA AAGATAAGA	240
	TAGAGGTGGC TATAATGTGT GGACTIONGAA GTATAACATT AGGTACAACA AATATAGAAC	300
	AGACAAAACA TTTCAATGGTT GACATATTAG GATTAAATTA TGAAGAACTT CTTGAAAACT	360
40	CAATTCGTTT CGGCGATGCA GATATAAGCC CAGGAACAAG ACTTCAATTT ATACAAGTTC	420
	CAAGTGAGCA ATTAGAAGAA TCTCACTTTG TGGGTATTGG ATTACGTACA CCAACTGACT	480
	CAGGTTTAGA GGAGTATGCG GAAATATTAT CGAATAAGGA TATTCATTTT ACAACAGTTA	540
45	AAGAATTAAA TGGCAATAAA TATTTCACTC TCGAAGATAA CAATGGTCAT ATTTTCTCAA	600
	TATATTCAAA CGAGAATAAT TATGGCGTTG GTTTAGGTAT GCCTTCTTyt GAGAGTGGCG	660
50	TCAATCCGTT ACATCAAGTG CAAGGTTTAG GACCAGTGAT TCTTAAAGTG AATCATGTAG	720
	ATATTACAGG TCAAAATTTA ACAAATATAT TCGGACTTGA AGTATTTGCA GAATACCAAC	780
55	CCTTCGACAA TGCTGACTAT CATGTCCAAG TATTCAAAGT TGAACCGGT GGTCTAGGTG	840

ATCAAGTTGA GTTGAAACG AAAGATGCAG ATTTCTTTAA TCAAGCGAAA TCGCGCTTAG 960
 ATGAAGTGGG AATACCATAT CAAACGCTTG AGCAAGATGA TATTGAATCA ATTAGAATTG 1020
 5 CTGAAAACAG TGGATTATCG TTTATATTCA CTTTACAAAA ATAATTTTTT TACGATAGCG 1080
 AGGACAAAAA TTATGTTACA TGAACCTTGG AAGAAGCGTA CACCAATCAA GAAAGTAGAA 1140
 10 GTCATTATAA CAGATGCAAA GAAAT 1165

(2) INFORMATION FOR SEQ ID NO: 821:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 821:

TCGCCCCAATT ATTATGAAAT ATTCAATACA GTTTATTGAT CAAAAACAA AAATCCATTA 60
 TGAACCTTGT CATCAGCAAT ATTAACGTAC GTTAGATGGA CCTCTTTAAT GATAGAACAA 120
 25 TTAATAAATA ATGCACTTAA GTATCCGAGA GGTAAAGATA TATGGATTGA ATTTGATGAG 180
 CAATCCAATC AATTACACGT AAAAGATAAT GGTATCGGTA TTAGTGAAGG nACTTGCCTA 240
 AAATATTGTA TAAGGGCTAT TCAGGTTATA ATGGCCAGCG CCAAAGTAAC TCAAGTGGGA 300
 30 TTGGTTTATT TATCGTAAAA CCAATTTTCA ACACACACAA ACCATCCGTT TCCGTCGTAT 360
 CTAACCAAAAT GAGGGTACAA CnTTACGAn TnCCATTTCC 400

(2) INFORMATION FOR SEQ ID NO: 822:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 760 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 822:

TGATATAATA CTTTGTAAA GAAAAGCATG TGTGGGAGGT ATGACCTGTA TGTGCAACGA 60
 AATACTTATC GTAGATGATG AGGATAGAAT CAGAAGATTA CTTAAAATGT ATTTAGAAAG 120
 AGAATCTTTT GAAATCCATG AAGCAAGTAA TGGCCAAGAG GCTTATGAAC TTGCAATGGA 180
 50 GAATAATTAT GCTTGCATAC TACTAGATTT AATGTTGCCT GAAATGGATG GTATCCAGGT 240
 GGCAACTAAA TTGCGTGAAC ATAAACAAAC ACCGATTATT ATGTTGACTG CTAAGGTGTA 300

TTCACCAAGA GAAGTAGTCT TAAGAGTTAA AGCACTTCTA AGAAGAACGC AATCTACAAC 420
 TGTAGAACAA AGCGAACCTC AGCGACGTGA TGTGATTGAA TTAAACATT TAGAAATAGA 480
 5 TAATGATGCA CATCGCGTAC TTGCTGATAA TCAAGAAGTT AATTGACTC CTAAGAGTA 540
 CGAATTATTA ATATATTAG CTAACACACC AAATAAGTA TTGACCGTG AACAAATATT 600
 AAAAGAAGTT TGGCATTATG AATTCTATGG TGATTAAAGA ACAGTTGATA CTCATGTTAA 660
 10 ACGCTTAGAG AAAAGTTAAA TCGTGTGTCT AGTGAAGCTG CGCATATGAT TCAACACAGTC 720
 TGGGCGGTTG GGTATAAATT TGAGGTTAAA TCTAATGATG 760

15 (2) INFORMATION FOR SEQ ID NO: 823:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 465 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 823:

25 CAAAGGAAAT TGCACAATTA GAAGACCGAT TACGTTACAG CTTTGAATGG GGGCTAATTG 60
 TTGATATTAC GCCACCAGAT TATGAACTC GAATGGCAAT TTGCGAAG AAAATTGAAG 120
 AAGAAAAATT AGATATTCCA CCAGAAGCTT TAAATTATAT AGCAAATCAA ATTCAATCTA 180
 30 ATATTCTGTA ATTAGAAGGT GCATTAACAC GTTTACTTGC ATATTACAA TTATTAGGAA 240
 AACCAATTAC AACTGAATTA ACTGCTGAAG CTTTAAAGA TATCATTCAA GCACAAAAAT 300
 CTAAAAAGAT TACCATCCAA GATATTCAA AAATTGTAGG CCACTACTAT aATGTTAGAA 360
 35 TTGAAGATT CAGTGcAAAA mAACGTACAA AGTCAATTGC ATATCCGCGT CAAATAGCTA 420
 TGTcTTGTCy AGaGAGCTTA CAGATTTCCT ATTACCTAAA AATTG 465

40 (2) INFORMATION FOR SEQ ID NO: 824:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 355 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 824:

50 CACCGCGGTG GCGGACGCTC TAGAACTAGT GGATCCCCCG GGCTGCAGGA ATTCCGCAGC 60
 AGGTAAGGAG GTCTCTGTAC CATGGCTCGT ACAAGCAGA CTGCCCGCAA ATCGACCGGT 120

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GGAGGGGTGA AGAAACCTCA TCGTTACAGG CCTGGTACTG TGGCGCTCCG TGAAATTAGA 240
 CGTTATCAGA AGTCCACTGA ACTTCTGATT CGCAAACTTC CCTTCCArCG TCTnGTGCGA 300
 5 GAAATTGCTC AgGACTTTTaa AACAGATCTG CGCTTCCAnA CGCCTATATC GGTGG 355

(2) INFORMATION FOR SEQ ID NO: 825:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1099 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 825:

TTCACTTGGC TTGTTGACTG ACTTGTATAT GATGATGTGC TTTGTGAATC GGATTCGCTC 60
 20 GTGCTTGTAC TTGTTGAGTT TGAGGCACCTT TGGCTTGCTG AGTTTGAATC TACTCCGCTT 120
 TGATTCATTG AGGCACTTAG TGACAATGAT GTACTCGTTG AGTCAGACAA ACTTGTACTC 180
 GTTGACGTAC TTGTACTTCC TGATGTTGAT TGAGACATAC TTATGCTCAT TGATGTTGAA 240
 25 TCGGATTTCG TTTCACTTGA TGATGTTGAG TCGGATTTCAC TTTCACTTGT AGAACCACCTT 300
 AATGATGTGG ATGTACTAAT GGAATCAGAT TTACTTGTAC TGATTGAATC ACTTGTGCGAC 360
 ATTGATGTAC TTAATGAATC AGACTTACTA TCACCTTGTG AATCACTTAA TGATGTTGAC 420
 30 AAACCTGTAG AGTCAGACAA ACTTGTACTC GTTGACATAC TCAGTGATGT TGAACACTC 480
 TCGCTCTTAA ACGTTGACGT TGATTCACCTG ATACTTGTGC ATGTTGAAAT GGACGTACTA 540
 CCACCTTGTG AATTAACCTTAA TGATGTTGAT GTGCTACCAG ATTCTGATGT ACTGCTGAT 600
 35 AATGAAGTAC TCTCACTTGT CGAACTACTC ACTGACTCTG ATGTTGATTC AGACGTACTT 660
 TCACCTTAATG ATTCACCTTAA AAAGGCAGAT GCACCTTGTG ATTCTGAATC GCTAGTACTA 720
 40 TTTGATTCAC TTAATGATAT AAACGTGCTC TCTGAAGCAG ATATTGCTTC ACTTATAGAG 780
 TCGCTGTTG ACGTTGATTC ACTTATTGAA TCAGACTCTG ATGTACTTAA GCTTGTGGAA 840
 TCACTCaTAG ATGTTGaTGT ACGTTCTGAA TTACTTGTAC TTAACGATGT CGAAGTACTT 900
 45 ACCGAACCGA ATGTGCTCGT AGAAGCACCTT TgTGATATTG ATTCACCTGA TGCAGTTGAT 960
 GCTGATTGTC TATCACTCGT TGAATCACTA AACGACGTTG ATATGCTCAT TGAATCGGAT 1020
 TGACTTGCCAC TCAATGAACC AGACGTACTT TGTGATTCCG AAGTACGTAC TGAAGCACTT 1080
 50 GTCGAAGTTG ATGTACTTG 1099

(2) INFORMATION FOR SEQ ID NO: 826:

(A) LENGTH: 338 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 826:

10 TATGCGTATC CTGATAGTCA CTTTGATTTT GATATGGAAT TAGCGAAAGA GCAATCTCAA 60
 GACAATCCAG TTTACTATGC TCAATATGCA CATGCGCGTA TTGTTCAT TTTAAACAA 120
 GCGAAGAGC AAGGTATTGA AGTGACTGCT GCGAATGATT TTACAACGAT TACTAATGAA 180
 15 AAAGCGATTG AnTTGTTGAA AAAAGTAGCT GATTGGAAC CTACAATTGA AAGTGTGCT 240
 GAGCATAGAT CGGCACATAG AATTACTAAT TATATCCAAG ATTTAGCCTT CTCATTCCAT 300
 AAATTCnATA ATGCTGAAAA GTGTACCAGT TGGTATTG 338

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(2) INFORMATION FOR SEQ ID NO: 827:

(1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 838 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 827:

30 GTATTTTCTT TCGCGAATGA TTTTATTACT TGAATACCAC GAATAACCTC CAATACCTTT 60
 TCCACTAATT GGTTTTGTAC ATTATGATAC GcTGGCGCAT TTGTGCGACT CTTTCTTTCT 120
 35 AATAATTGAA TCGCAAAAAA TGATAGTAAT ACGCCAATGC ATGCTAATAA TGATACTTGC 180
 CACGAACTA CAAGTAGAGA CAATATGAGT ACTGTAATTA ATATGTATCC ATTAACAACA 240
 ACGTCCACCA TTTTCATAGC AAAATTTTCT AAAAAGGTTA AATCTGTTGT TACTATTGTT 300
 40 GTTAACTCAT TTGAATGATG CGAATTAAAA TAACCTAACC TTACATTTTT CAATTATATCC 360
 CCTATATCTA AACGTTCTTT CGCACTCAT TCAATAAGCGA TGCTCTCATG GCTTTTGCTT 420
 TTGAATATG CTGTAATAAA TCGTCCAATC ACTAATAAAA CCATGATAAT TACAACATTC 480
 AATATATCTT TCATATAAAT AGGTTTATGA GATAGCACAT TATTAATAT TTTTGACGCT 540
 AAAAAGATAG GTAACGCAAT AAAAATAGCA TTTAAAAATG ACATGCTAAA TCCTAAAAATC 600
 50 ATTCTTGCTT TATATGCTCT TATCCAGTTT AAAATTTTAA ATGTAATTTG AAACATATTT 660
 GACCTCCTTT TCTCATTAGT TTAATTATGT CCAATATTGA TTCCCAATC TTTTGATGCG 720
 ATGTGCGTAT CCCACATTTT CTTATAATTA CCGTTTAATT TTAGCAATAA GTGATGTGAC 780

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(2) INFORMATION FOR SEQ ID NO: 828:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 898 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 828:

TCCnAAAGAA GAAATAaCAT TATCATaAAA TCCATTGAAT ATAAATTCAG TCATCCCCTC 50
 TGAACCTcCTC CATAAATATA ATGGTGAATA AGTATTGTGA ATGCAATTAG TAGTGTGTTG 120
 ACTTATTAAa TAAGCTTTTA TAATTAAATT TTTAAATCCA TCAGTCTTAT AACCATTTAA 180
 TCGAACTCTA TCTCTAATTA TTTCCATATT GTAATCACTA GGCAACTTAA CATGATATTG 240
 CATTGCATGC ATTTAGCATA CCCCCCTTTA TAAAAAGGAT AGCAATAATA AGTAAAAATCT 300
 CATATTATCC AATTGTGATA TAGTTATCAT AAAAAGTGAT AGGTGATTAA ATTGAACCTT 360
 AATGATTGGG AAATTTTTAT AACTGTATGT GAAGAAGCAT CTATCAATAA AGCTGCAATT 420
 AAACCTAGAT ATGCACAATC TAATATATCT CAAAGAATTA GCAAGCTTGA AAATGAATTA 480
 GGTGTAGTTT TGCTTTTTAG AAATCAAAAA GGTGCTAAGG CAACTAAAGC AGGCGAAGAA 540
 TTCTTAGCGT ATAGCAAAAA AGTATTAAAG GATACAGAGA CTATAAAAAA TAAATGAAA 600
 AATAATACTA TGCTATTTT ATGCTCAGAA CTGTTATTTA ATTATTTATC TGAGAGCGAA 660
 GAAATTATGA TGTCGAATAA CTCaATTAAT TTTATTTCTA GTGGAATAT TAGAAAAAGCT 720
 ATAGAAAAAA ATAATTATGA TAAGGTTATT TCATTcATAA AaATTAAcGA CTCAAATTAT 780
 AGACTTAGTA ATCTTGATAC TATGaaAGTA ACGCTTTACA GTAATGGAAG TAATTATGAT 840
 AAAGAGGCTT TACTAATAAA TAAAGATGAG TTTGGTCCTT TAAGGnAAAT AACTTTAG 898

(2) INFORMATION FOR SEQ ID NO: 829:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 798 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 829:

AGTAGAGGTC ATAAATCGn ATTTCAAAG CAATTaATGC AAAATACTGA GTCTACAGTG 60
 CTATTTGCGA AAGCGTCcAT ACGAagTTGA GcAATGCTAA TAATAATGGT CTATCAAAAA 120

	AATATGTTGA TAGTTACACT GATTCTCTTA CTGGAGTAAC AACTTCTGCT TTTTAAATA	240
	AAGATACAGG CAAAGTAACT CTCGGGATGA CTGGGACTAA TTTACAAGAC GAAGCCTTTA	300
5	AAAAGTTAAA AGAAGGTGAA TTTTCAAGAC AAAATGTTAC CAATGCTTTG GAAACAGTTA	360
	AAGATGGATA TGCAGATCTT AAAATATTAT ATTCTCTGCG ATCTGATCAA AACTATAGAT	420
10	ATGCGAATAC ACAAGAATT ATAAATAAAA TAAAAAGTAA GTATGACATT GATTTTATTA	480
	CTGGACATTC ACTAGGTGGA AGAGATGCGG TAGTTC TAGG AATGAGTAAT GGTATTCCGA	540
	ACATTGGGT TTATAATCCA GCTCCTATT CTATAACTAG TTTGAATCCT AATTCCCAG	600
15	ATGGAACCG TTTATTAGAA TTATATAAAA ATTATAAAGG TAATATTACT AGGTTTGTG	660
	CAGAAATGA TGCATTGACA GAAATCTGA AGAAATATA GCATTATGTT TTTTTCGGTA	720
	ATGATAAAGT CTTTAAAAAT GGTAAAGGTC ATGAAATGka AGGCTTCTG ACCGAAGAAG	780
20	AACAAAAAGC TATAAAAn	798

(2) INFORMATION FOR SEQ ID NO: 830:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 830:

	AATATCAATC TCTTCATAAG CTGAATTATT TTCATGCACT TCTTGATGTG ATGATTGTG	60
35	ACGAACnGCT ACAACTAACA TTTTATCGTC TAAATAAAGT TGTTTATATT TTTCTAATTC	120
	ATCAGGCGCT AAGTTGTAGC GTGATAAAAC TGCATGTTCA CCATCTTCTC CTGTTAACAG	180
	TTTAGTCATT CTATCACTAA ATGTCCACT TGTTGAGATA AGGGGAGATT TCAGAGTCGT	240
40	GTAAGTCATT AGGTGTAATT TACTTTTACT AATAATGTT AGCCTGATCT AAATAACTTC	300
	AGATTCTTTG ATTGATAnG GnATAATGCG AGTGCAATAC ACAGAATACT GCCAAGTGCG	360
45	CCCTTAAAAAT TGTTATTAnC TTACCTCTAT ATAAGAACCC	400

(2) INFORMATION FOR SEQ ID NO: 831:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 475 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

AAGTCTGCAT GACTTTTATT TGCAAGTTTCG ACTGCTTGAT CAAAAGCGCG ATGATCTTCA 60
 GGATCAGCAC TTTGAACCTGA GCTGAAATTC GGATCAGGTT TACATTGTGC TTCTACAAGA 120
 5 TTAATTTGAT TGAAATTCAA AGATTGTAAT AACTCAGGTA CAATCGGAAC ACTTGTACCA 180
 TGCAAACTAG TGAACACAAC TTGTAAATCA GATTTAGGAA TATAGCCAAT CATATTTTGA 240
 ATGTGTTTCA TATAGTCATC AGTTACAGAT TTCGGAAAAG GCTTGTATATA AGATGTATTT 300
 10 TGTTTAGAAA TAGGTATATC AATCTGTAAT GGATCGCCAA CTTCTTCGAT ATAACGACTT 360
 GCAAGCTCAG ATGCATCAGT CGATAATTGC GCACCATCAG AACCATATAC TTTGATGCCG 420
 15 TTATAGTCTT TCGGATTATG ACTTGCTGTA ATCATAATGC CAGCAGTAGT ATTA 475

(2) INFORMATION FOR SEQ ID NO: 832:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 724 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 832:

CTTGAATTGA AGGATACGCA AATGATGCAT AATCAGCTTC TGTATAAAGC TGTAATGTAA 60
 TGTCATCAAG GTCACCTTTT CTAACAAGCA CCTTATTAAT AGAAGTATGA TTCGTTGCC 120
 30 AAGTACCTTG ATTATTTTGT TCTAAATGAA TGACTTCGCC TAACGATTTT AACGTAATAT 180
 CTGCACGCTC GTCTTCGCTA ATAGTATATG TCTTACCATC TCGCAAATTG AGCATCTTCA 240
 35 ATTGTTTGTG ATATTTTATA ATCAATTTAT GCATTGTCTT TGCCTCAGTC CTATACTATT 300
 TTTTCTTTTC AGCTTCTTGG CGTTTCTTCT TATCTTTTGG TGCTTGTTCT TTTTGTCTCT 360
 TTTGCTTCTC TTCTGTGTGC TTTAATTTCT CATCTTCGC TTTTGCTTTC TCTTCTTCAG 420
 40 ATTTCGCTTT TTCATCTTTA ACTTGTTTTT CTTTGTCTAA AATATCTTGC AATTATTCGT 480
 TATACTTTT CGTTTCTTCA GAACGTTTAT CATTCGATA ATCTCCGTTA TTTTAACTCT 540
 45 CAITTAATTT ATTAATCAAC GCTAACTTTG TAATATCGTT ATCATCTAAA TAAGTGGCAA 600
 TATTAATCGC TTCATCAAGA TGTCTTGTGC CTAATTCAT CCAATATAAT AAGTAGTCTT 660
 TGTTTGAATT TGGTGTACCA TTATTAAGTA AATTTCCTT CGTATCTGTh TCTAAACcTh 720
 50 GTTh 724

(2) INFORMATION FOR SEQ ID NO: 833:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 994 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 833:

	AGCAGTTTGG CTCGTAGAAA TCTCCCGTCT CTATCTCTATG TATTAACITT TATTATATTT	60
10	GTATGATAC TATCGATATG AAAGCOTTGT CAATGGTTTT TGTAAAAATT TTGCAAAATT	120
	TAATTTTTC AAGTCTTTATA AAAGTAGTIT AATTTGAAAA CTAGAAATAC CAATCCTAAC	180
	TAATTTATTT ATGACGCTCT TTTGTTTAAAT TGACATTCTT CAGCCATATT TTTTATGACT	240
15	AGTTGCATT TTTACTAATA AACACCTCTA AAACCTTAAAT GATTTTAATC GTTTTAGAGG	300
	TGCTAATTAT TTTATTTGAT TATTTTTTGT TTGATACCTA CTGCATATCC CATATGAAAA	360
	CGGCTTTTT ATTATGTTAT ATGACTAAAT CTCGTGAAAA ATGAAATTTT TGCAGACTTA	420
20	TGATTTACCA AAGTTTATCA TAACTAGTAG TTACATATTT CGCTCCATTT TTAACAGCTT	480
	CATTGACTTC ATCTATTGTA TTAATTAGGC CACCTGCAAT GACTTGTGTG TTTGTTTCTT	540
25	TCTGAATATG ATGAATCGCT TTAATCGCAA CACCTGGAAG TACTTCAACA AAATCAGGTT	600
	CAACTTTTTT TATCAAATCT ATACTGCGTT TCAATGCTTG ACTATCAATA ATAAATACTC	660
	TAAAAATCGT TAAAGTATTT AATGATTTAG CTTTTTTTAT TACTTTAGAT TTATGCGATA	720
30	CGATACCTTT TGGCTTGTAT TGCTGAATAA TAAATTCAC TGCAAATTC TCGTGCTTA	780
	AACCTTTTAT CAAATCTATA TGAATAAAAC ACTCTATATG ATTTTGCTTC AGCAAATCCA	840
	TAATACTTTT TATATGTCCT ATATGCATAT CTAGAAGCAC ACACATTTTA TAGTCTGTnT	900
35	TAATCCAGTT TCTCTAAATC nTTAATGTTT CCTATAAGCA GGCAATATGT TGTTAATTC	960
	CtnGATCCAT CCTCTCTACA TCACACGCTT AAAT	994

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(2) INFORMATION FOR SEQ ID NO: 834:

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(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 783 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 834:

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	TcnCAAAAGT CGGATTTAGG CTATGGGCCA TTnACTATT ATAACATC GGAAATATAC	60
	CACATAACAT CATTATTGAG TTGATTCTAT CATTTGGCTT ATTAGGGITT TTTATCATAA	120
55	TGATTTCAT TTTGCTACTA GTTTATAAAA TGATTAGGAA CTATGATCCA AACACTATG	180

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5 ATTAGTGT AAGTGAATTT TGGTTGTGT TGTCTATTT TATTACAAAA GGACGGCGTC 300
 ATCATGGCTA AGAAAGTTTT TATTATGGAT AGCGTAAAGA CAATAATTGG TACGTTGCTT 360
 10 ATAGCTTAG GATTACAATT TTAGCTTAT CCAATTATTA ATCAACGAGT AGGTAATGAA 420
 GCGTTCGGTT CTATTTTAAC GATTATACA ATAATAACAA TCACGAGTGT TGTATTAGGC 480
 AATACGCTTA ACAATATACG mTTGATTAAAT ATGAATCTAT ACAAATCCAA TCATTACTAC 540
 15 TGGAAATTTG CATCGATACT TTTAATCTCA ATTCTGATTG AGAGTATAGC TTTAATTATT 600
 GTATTTCTTT ACTTTTITAA TTTGAACATC ATCGATATTA TCTTTTAAAT TCTACTTAAT 660
 ATTTTAATGT GTTTAAGGAT TTATCTGAAT GTATTTTTTA GGATGACTTT AAAATATAAT 720
 CAGATTTTGT ATATTGCTCT TATTCAATTT TTAGGTTTGC TGATAGGACT ATTTCTATAT 780
 nAT 783

20 (2) INFORMATION FOR SEQ ID NO: 835:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 794 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 835:

30 TTACCTAAITT TTTCAATCaT AAGATTCCCC CTATTGTTTA AACaTAAAAA TATTATaCGA 60
 TTAACCACGA GmCACTTCAA TATATTTTTC AGAATATTCT TATAAATATT AATATGATCA 120
 35 TTTCACTAIT TAAACAGGTT TAATATTAAA ATAAGTTATT CATATAAACT GGTGCTGTTT 180
 GATCCAATTG CAGACTTACG AGTCATTGAA AAGTCTCACA AACTATTGmA AGTAAATATC 240
 TTAAATAGA AAGTGAATGG TTAATTTAAG TATATTTmAA AAATATTAAAC CTTTTTAAGC 300
 40 ACTGCTATTT AGGATATACT AAATAATAAC TAAGTTTAGA AAAATAGGAG GAACATCGTT 360
 TATGTTAAAC AAGGTTTGST TCCGAACGTG CATCGCTCTG ATTATGCTGT TCATTCTCAT 420
 CAAACATTTT ATGGAAGTGC ACGAAGTATT TACTCCAATA GCTACAATCA TCGGTTCTGT 480
 45 ATTTCTTCCA TTTTAAATTA GTGGTTTTTT ATTTTATATC TGTCTACCTT TTCAAAACCTT 540
 ACTTGAAAAA GTCGGTTTTT CAAGATGGGC TAGTATAACA ACAATCATGT TAGCTTTGTT 600
 50 TGCTATTATC GGCTTAATTG TTGGTTTGTG TGCACCAATC ATCATTTCAA ATATCAACAA 660
 TTTAAATTAGT CAGACACCTG gCCCTACAAA AAGGAAGCAG AGCAATATAT TAAATTGCGA 720
 CTGGCTCAAA TGGnTAAATT ACCTGGAGGA TGTAACCAng TGGATTACCA ATATGTGAAA 780

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(2) INFORMATION FOR SEQ ID NO: 836:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 836:

TGTTTATACT	GTGCTGAAT	TAGAAGAGGT	TTTAACACCT	ATGAGACAAG	ATGGAACTCG	60
TGATATTIAT	GTTAATTAG	AAAATGTGAG	TtATATGGAT	TCGACAGGTT	TAGGTTTATT	120
CGTAGGTACA	TTAAAAGCAT	TAAACCAAAA	TGATAAAGAA	CTATACATTT	TAGGTGTGTC	180
AGATCGTATC	GGTAGACTAT	TTGAAATTAC	TGGTCTTAAG	GATTTAATGC	ATGTTAATGA	240
AGGAACGGAG	GTGCAATAAC	ATGCAATCTA	AAGAAGATT	TATCGAAATG	CGCGTGCCAG	300
CATCGGCAGA	GTATGTAAGT	TtAATTCsTT	TAACACTTTC	tGGCGTTTTT	TCGAGACTGG	360
TGCCACATAT	GATGATATTG	AAGATGCCAA	GATTGCAGnT			400

(2) INFORMATION FOR SEQ ID NO: 837:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 433 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 837:

ATTGATCCAT	TTTGGGGTTC	GGGTACAATA	GCTATAGAAG	CTTGTTTAAT	TGCTCAAAAT	60
ATCGCACCTG	GTTTAAATCG	CGAGTTCGTA	TCAGAGCAAT	GGAACATCAT	GCCAGCAAAAT	120
ATTATGATG	ATTACCGTGA	TGAAGCGGAT	AAGATGGCTG	ATTATGATAA	AGAAATCGAA	180
GTATATGCTT	CTGATATCGA	TCCAGAAATG	GTAGAGATTG	CTAAGCGTAA	CGCTGAAGAA	240
GTGGGGTTGT	CTGATATTAT	TAAATTTAGT	GTAAGAAGATG	TCAATACATT	AACAATTGAT	300
ACAGAAGAAC	CGGTGGCGTT	AATTGGAAT	CCTCCATATG	GTGAACGTAT	TGGTGaTCGT	360
GAAGAAgTtG	AAGAAaTGTA	CGGTTATATT	GGTAAACTAA	TGAAACAACA	TCCATTTTTTA	420
TCTACATACA	TTT					433

(2) INFORMATION FOR SEQ ID NO: 838:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 926 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 838:

	ATTGGGCCAA CTAATCCTGT ATATCCAAAT CCAGCAGACA ATGGTGTTCC TTAACTCTGA	60
10	AGAACGTAAG CAATGATTCC AGTAATTATT CCATTTATAG TCAATGGTAT CGAAATAAATT	120
	AAATTTTICA AGTAACTGG GATCATCATT TTGCAGCTC CTATGAGTAA AACTGCATTT	180
	ACACCAATAG AATTGACACG CAATGAGCCA AATAAGAAAG TAACACAGGC AGCCACTATA	240
15	CCTAGGTTTG CTGCTCCACT TCCTAGTCCG TTTAAACTAA TCGCAGTTGC AATCGCTACT	300
	AACGATATTG GTGTTACCAT TAATAATGAA AATGCCACAC TAATAAGTAT AGACATTAAC	360
	AACGGATTTA AGTCTGTAAA AGAATGAATT ACATTTCCAA TTGCTTGAGT AATTTTTCGA	420
20	ATGTAAGGTA ATGTGATTAG ACCGATACCC CCACTAACGA TAGGTACTAA AACTGGTAAT	480
	ATAATTAATT CAAAAGATCC AAGTTTGTTT TGTAAATACCA TATATATAAG ACATGCAATA	540
25	ATAACAACCA AACTCGTATT TATAATGtCa CCTATACCTT TTAACATAAA ACTATTATTG	600
	CTATATACAA CAGCACCTGA ACCAATCATA GCTGATGTAC CTACTATAGC AGCACCTGCA	660
	CCATTAAATT TAAATTGATG AGCAGCTAAA ACCCCAATAA TAAATGCCAT AAATGATTGA	720
30	ATTAGTATCA CTAAGTGATA CGTTAATTCT AAAATTTTCA TACCACTTT AAATATTTTt	780
	AATACTTCAC CTAATAAAGC ATTCCGGAACA AGTGCAATAA CAACACCAGC ACCAATAGAA	840
	TTTAAATCT TACTGAAAAA CTGTTTATTA TCAGCATTAT TTGCGTTACT CATAAACGAC	900
35	CTCCAAITTG AACATTArAC TCATCA	926

(2) INFORMATION FOR SEQ ID NO: 839:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 839:

	CTTCGAAACG TACTTGGTCA TTCCCTTTAC CAGTACAACC ATGTGCAATA CCTACTGAAT	60
50	TTGTTTTCCT AGCAATCTCT ACTAATTTTIT TAGCGATTAA TGGTCTTGAT AAAGCTGAAA	120
	CTAATGATA TGCATTTICA TACATTAAAT TTCCCTTGAT TGCATAACTT ACATACTCAT	180
	CACATAATTC TTTTGTGCA TCAATAATAT GACATTCAAC TGCTCCCATATA TCTAAAGCTT	240

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CGTATCCCTT GTGATAAGC CATTGAACGG CCACACTTGT ATCTAGCCT CCKGAATATG 360
 CTAAAACAAT TTTCTCTTC ATAAAATTCA CCTCATTGTA 400

(2) INFORMATION FOR SEQ ID NO: 840:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1043 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 840:

GGATCGCGGT GTTGTCCTTG ATATACTTTG TAGCGATAAC GTTTACCTAC ACAATCATAA 60
 CGACAATGAA AATCGTCATC GACTGTAAC ACATTGTTGA CATAAATATC ATCAGGTAAC 120
 GTTCGGTTCA TTGCATATTG CCATTGTGAC ATAGGTATAT TCAGCTCTGT GTCGAAATGA 180
 AAGTATTGCT GTATGCGATG TACACCTCTA TCAGTCTCTAC TTGAAGGATG GATTCTCACA 240
 TGTCTTTTAT GCATGCGTTG TAATAGCTTT TCAAATTGTT GCTGTACCGT TCGACCATTT 300
 TGTGAATTT GAAACCTAG AAAATTATTT CCTTGATACG CAATTTCTAC TAATATACGC 360
 ATGAATTTAC ACTCCTGAAT ATTTTAATAC GAATAAAATA ATTGCAATTG GGATAATCAT 420
 GGTAAAGAT ATCGTATCTC TCAATTGCCA TTAAAGCTGT CTGTAGCTCG TTCTCTTAAC 480
 ATTGGCATCA TAACCCCTAA CTTCCATTGC GACCGCTAAT TCTTCGGCGC GTTGGAAAGC 540
 TGAGATGAAT AGTGGCACTA GTAATGGAAT AAATGATTTA ATACGTGTTG CAATGTTCCC 600
 TGAACCTATT TCAGAACCCAC GCGACTTTTG CGCCAAAATG ATTTTATCTA ACTCATCCAT 660
 TAACGTCGGG ATGAATCGTA ACGCAATGGA CATTATCATA CTAAATTGAT GAATGTTGTA 720
 TTTAAACATC LTTAGTGGTG CAAGTAATCT TTCAAACGCA TCTGTTAAAT CAATTGSACT 780
 TGTAGATAGT GTCaTAATTG TTGCAATCAT TaCAATCCCA ATTAAACGCA GTGCTATATA 840
 TAGCCCTTCT AAAATACCAT TAGTTTCAAT CGTGATGCCA TGCCATTCAA CTAATACATA 900
 TCCACCTTTA GTTAAAAATA TATGCATCAT TAATGTGAAG ATTAAAGA AAAATATTGG 960
 TGTAAACCT TTGATTAGGA ACCATAATTG AATTTTGTCT AATCTCATA TGAaAngAT 1020
 AAGTGCAAC ACCCAAGAT ATG 1043

(2) INFORMATION FOR SEQ ID NO: 841:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 343 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 841:

5	TCGAAATCAA ATTATAATAG ACAATTTTAG GAGGTGGACT TTCGATGACC AAAGGAATCT	60
	TAGGAAGAAA AATGGGATG ACACAAGTAT TCGGAGAAAA CGGTGAATTA ATCCCTGTAA	120
10	CAGTAGTAGA AGCTAAAGAA AATGTTGTAT TACAAAAGAA AACTGTAGAA GTTGATGGAT	180
	ACAACGCAAT CCAAGTTGGA TTGAAGACA AAAAAGCATA CAAAAAGAT GCAAAATCTA	240
	ATAAATATGC TAATAAACCA GCTGAAGGTC ACGCTAAAAA AGCTGACGCh GCACTGAGAG	300
15	nTCCCCTCAT AATTTCCTCCA AnCGTAACCA TGTGTGAATA AAT	343

(2) INFORMATION FOR SEQ ID NO: 842:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 430 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 842:

25	ATGAGTATTT TAATGATGCG CTACGAGCGT ATGGTCTTAC TGTGAALAAC GGTGAATTTG	60
	GAACACACAT GAATGTTAGC ATAAATAATG wtGGwCagTC TCTGGTAGTT TAGAATTAGA	120
30	AGAATTAAG CAATTAGAC AATGGGGTTC TAAACACCA GGTCATCCTG AATACAGACA	180
	TACAGATGGT GTAGAAGTTA CTACCGGACC ACTTGGACAA GGTTTTGCTA TGTcmGTAGG	240
35	ATTmGCTTTA GCAGrAGATC ACCTAGCAGG GAAATTTAAT AAAGAAGGAT ATAATGTTGT	300
	AGATCATTAC ACATATGTAT TAGCTTCTGA CGGTGATTTA ATGGAAGGTA TATCGCATGA	360
	AGCAGCTTCA TTTGCTGGAC ATAATAAATT AAGTAAATTA GTTGTTTTAT ACGATTCAAA	420
40	TGGATATTTC	430

(2) INFORMATION FOR SEQ ID NO: 843:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 329 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 843:

55	GGACTGCCCG ATGATTTGAC AAATGAATTG CTGATTGAT TTATATATTA TCTGnAATTA	60
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TCATCTATCC AACAAATATGT CTTATCAATG GTATAGTCTT TGCACACCAA TGGAGGnAAA 180
 TAAATCTCAA CCTTACTATA TTAATATATA ATCAAATCTT AGATTAACATA GTGTAATGAT 240
 ACAGATGGAT AATTGAGTAC AAATTTAAAA CCTGAGATT TTCGCTTAA TTTGAAAACC 300
 TCAGGGnTTA TTTGATTTT ATATAATGA 329

(2) INFORMATION FOR SEQ ID NO: 844:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 844:

AGATGAAGAA AGTGTTCAT CGATTATCTT AACAGITGTT GCTTTATATA CTACnTCTT 60
 TCCTAGATCT TGTACCGTTG AAAAGAGACC TGGTTGTAAT ATCTTAATG ACATTTTCAA 120
 TCACCAACCA GTCAATCAACA TTAAGATTGC CATCTGATAT ATCTCTTCG ATTTGTATAA 180
 ATTTCTGTC ATCTATGCA TAAATTTGTA TCCATTCTCC TGCTCGTAC ATTGACATTG 240
 GTTCACGCTC GCTGCTAAAT ACTTTTAACG GTGTGCGTCC AATAATTTGC CATCCGCCAG 300
 GGAATCTGA TGGGATATAG TCCTGTTTGA TTATTCGCAA TACCTACAGA ACCTGGCATG 360
 AATTTTTTAA CCTTGGGCGn ATTACGTCTA nGnGTATGT 400

(2) INFORMATION FOR SEQ ID NO: 845:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 535 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 845:

CATAAGTCCA GTAACCTTCA ACTGTGTCCT CATCTTAGT TCCAAATATA TCAACGTATT 60
 TATTTCTTAA CTGATTAAAT TTTCCCCAAC TCTGGATCC AAACACTTGA ATATGACTAT 120
 ACCAAACCCA CGTTTGCAAT GTTGATGAA TGCTACCAT TGGCTTTTGC CATAACCAT 180
 TTCCAGATAA TGAAAAATGC GGCTGAGTGT AATATTTGAT TAGTTTCATT ATATTAGTCT 240
 CGTTTCACT GATATTATAG GCTTTTGCTT CAGATGAAAA ACTGATTGGT GTTTTAGGAA 300
 GTTGTTTGA TGTAGTTTCT AAAAGTAACA ATGCTGTTGA TAAACTAAT TTATTCATGA 360

ACCGATTCCGG AATTAAATAA AAGCTAAAAC TATGTTAAAT AAACCTAAAC AGTTAGTAGT 480
 GTTATTTAAG CAAAACCTTAT CATTTTTAAAG TTGGACAGAA CAGATCAATA AGAGC 535

5 (2) INFORMATION FOR SEQ ID NO: 846:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 509 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 846:

15 TCAATCGATC AAATGGTGAT TGACCTTTTA AATTGTGATG ATCAAAATAA TGATTGTTGG 60
 CCATATCTTT ACTATGCTTA CGTGCAGTTT CAGAAITCTG TTTAGAATAC TTCAATGTAG 120
 20 ATAATTGATG TTGTTTTCIT TCGACATTAA CTAATCAAAA ATTTTGTAGT TCAAAACTAT 180
 CTGCAAGCGA TTTGATGGT GCTCCATATT GTTCTTTTAA TCTATTTTCC ATAGCATCAC 240
 TTACTTGTA AACAGCTGTT ACATTATTAC GTCGATGCTT ATCATAAAAT ACCGTCGTAT 300
 25 AAATGTGATT TTTATGGAAA ACATCATATT CTTTATTATT TTGTTGTA ACGACTCTAC 360
 CTTTAACAAT CTCTGTTTCT GGTTCGCCTA ATCTTTCCTT TACAACCGAT TTAGTGTGAT 420
 TGTATTTAAT TTTTGATTTT GAAGTGATTA TATTTTGATT TGTATATAAC GCATTAACTT 480
 30 TATCTTTCAT GTAACCTATC ATTATAAAA 509

(2) INFORMATION FOR SEQ ID NO: 847:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 847:

CGTATTGATC TATAAATAGT GTTAGATGC TATAGTCGGA TGCCTAAGTA ATTTAAAGAA 60
 45 AGTATCTTTA ACATCGATGT GTGTATAATC ATTTTAAAGT GTATTATAAT CTTTTCCTTC 120
 TCCCTCTA AATATATACA GGTGCTTCAT CAGCTAGTGG TTCAACTGGA ATGTCAGCAT 180
 AAACCTCGCA TCATATGTTA AACAAAAACG ATTGTATCTG TACTTCACCT ATACAGCAC 240
 50 TATCCAATTC GTGCTTATCA AATAAACTAA GATTTTGTGC AGTACCTTTT CACAACCTAGT 300
 ACATACGTCT TGAGTCTGGA AGCATCATTT CATAAGGAGA ATACTGGCCA CGTGTGGACT 360

55

(2) INFORMATION FOR SEQ ID NO: 848:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 848:

TACCACTTGA ATACATTGCA TATAAAATAC GACGTTGTAC TGGTTTTAAA CCATCACGAA	60
CATCTGGCAA TGCACGCTCT TGAATAATAT ATTTACTATA TCTCCAAAG CGATCACCTA	120
AAACATCTTC AAGTGATAAA TCTTGAATTA TTTCACTCAC TAGATTTCCT CCTCATCAA	180
TTGATCAITT TCAAGCACTT GTACTTCAGA ATTATCTAAA ATACTTTGGT CCTCTTGCAT	240
ACCAAACTCA ACATGCTTTT CAATCCATTC ACGTCTAGGT TGTACTTTGT GCACCCATG	300
AATGTTGTTA CACGTTTAGA TGGAAACGAC TTGCATCTTG CAACTTGTA CACGnATTGA	360
AAGTTnCGTG TTTGCGGGGG TnGAGCGTC GTTGTCCCAT	400

(2) INFORMATION FOR SEQ ID NO: 849:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 849:

TTTATATGAT TTATTTGAGG AGTTAAGAGA TTTATTTAAA GAAGAAGATT TAGAACCATG	60
GACATCATGC GAATTTGATT TTACAAGAGA AGGTGAATTA AAAGTTTCAT TTGATTATAT	120
TGATTGGATA AATTCGAAT TTGGTCAAAT AGGTCGACAA AATTACTATA AGTATAGAAA	180
ATTTGAATTT TTACCGAAA CGGAATATGA AATTAAATAA GTTAAAGAAA TCGAGCAATA	240
TATTAAGAG CTAGAAGAAAT AAATATCTT AATGTAAGAC TAAACAATAA AGCTTTGTTT	300
AGTCTTTTGA GCGTTTAAGT AAAAAGCAAT AGATACCGTA AAGTTGATGC TCATCAATAA	360
ATAATATAaa GATAATTTTA GGTTTTTAAA CTTTAAATCG	400

(2) INFORMATION FOR SEQ ID NO: 850:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 923 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 850:

5 CAGGCCATAC TTACAATTTT GGCCATCGTC CGGATGTATT nGGAAATCGTT GGATAATAAG 60
 CATCAAGGTC GTGACTATTT CGTAAAATTC CAACTGTCCC AGAATTACa TCATTATGTC 120
 10 CAATTACTCG GCAACCAGAT TTGGCCAAC TCTATATAT CaTATATCC aATGTATAA 180
 ATGGTTGAAT CAAAATCTTT GAAATTATAC TTATTTAGTT TCAGAAATCa CGGTGATTTT 240
 CACGAAGATT GTATGAATAT TATTATGAAT GATTGTAGAG AGCTTATGGA CCCACATTAT 300
 15 ATTGAAGTCT GGGGCAAGTT CACACACGTG GTGGAATTTT TATTGATCCT TATACAACT 360
 ATGACGTCCT AAATTCTAAA TATGAAAAA TGGCTGAGCA TCGTTTGATG AATCATGATT 420
 TATATCCCGA AAAAATAGAT AATCGTTAAA TGTATCATTT AATAACACA CCAATAAGTT 480
 20 GATTTTCTTA ACTTATGGT GTGTTTTTCA TTTAGCATAC ATAATAGGTT ACATTAATAA 540
 AACATTTTAT ACCAAAGTAC ACCAAAAGAA TATTAGTACA CGAATTAAAC AACATTTTAA 600
 TAGAAACCTA TTGCACTTTA ACGTCAATAA GTATATTTTT ATATTATCTC TAATTAAATTG 660
 25 TCGCGCGCTTA ATAACAGAAT ATTCTCAATA TTTTATTTTT TTTGTGATT GTTGAATAT 720
 TTAGTTGATA AGGCACAATC AAATTTACTT AAACATTTGT ATTAGGGGAA GAAAGGATGG 780
 GATGTATACA TGACACAACA AAACCTCCAT GGAAATCAAA TTCAGACAT ACCTCAAAACA 840
 30 GGATTTTTTCG GGCATCTCTG AGGACTAGGC GTACTCTTCT TTGTAGAGTT CTGGGTAAGG 900
 KTTAGTTATT ATGGGCATGC GTG 923

(2) INFORMATION FOR SEQ ID NO: 851:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1004 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 851:

45 TTATnTGCACT CTATTTCACT TGGTGTAAG AAAGCGGAAT TTGATTTTAT TGAAAAGTTA 60
 GCTCAAGAAA AATTAATCCC CgAATATATT ACAATAGATA TTGCGCATGG TcACTCAGAT 120
 50 TCaGTGATAA ACATGATTAA ACATATAAAA ACCCATATAC CTGATAGITT TGTTATTGCT 180
 GGTAATGTTG GTACGCCAGA AGGTGTTAGA GAATTAGAAA ATGCTGGTGC TGATGCTACC 240
 AAAGTCGGTA TAGTCTCTGG TAGAGTTTGT ATTACAAAGA TTAAACAGG TTTTGGTACT 300

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	GCCGATGCTG GTATAAGAAC GCATGGCGAC ATTGCTAAAT CAATTAGATT TGGTGATCA	420
	ATGGTCATGA TTGGTTCATC WTTGCGGCA CACGAAGAAT CACCTGGTGA AACTGTAGAA	480
5	CTTGATGGTA AACAGTATAA AGAATATTTT GGTAGTGCAT CTGAATTTC A AAAGGCGAA	540
	CATAAAATG TAGAAGGTAA AAAAATGTTT GTAGAACATA AGGGTTCATT AATGGATACC	600
10	TTAAAGAAA TGCAACAAGA TTACAAAGC TCAATTCAT ATGCCGCTGG AAAAGACTTG	660
	AAATCATIAC GTACTGTAGA TTATGTTATT GTTAGAACT CTATTTTCAA CGGTGATAGA	720
	GATTAAATAT TATAGTAGGT GAKGTAAAT AAAAATTCA TAGTAACTGT TGTTCGTTT	780
15	TTATCAATTA TTATCATTGC GCCAATAACA GAATTTAAAC CATTCAATCA TTTCAAAAAT	840
	GAAGTAAGAC AATATATTGA CATTACATC AATAAGAAA CAATTTCTGC GGAAAAATAA	900
	TTGGATACAC CGAAGAACA ACAATTGGCC TTTAATAATA TACAAATGAA CATGTCGAAA	960
20	TCAGATGTTG AGAAAAATT AAATAAACCA AAAAGAGTGA CATn	1004

(2) INFORMATION FOR SEQ ID NO: 852:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 852:

	GTTCGCTCCA ATGACGCAG TTGTATATGC ATAGACACCA AAATCGAACC ATTCCATTGC	60
35	ATTACCGATA CCGGTTGCAA CAACGGTTTT TTAGCTTTC TTTCATCCA CCATGTTAAT	120
	ATTCTCTTTA TAAAAATCCA TGAATTCATA CACTCCCTCT TGTATGTTTC ATAATTATAC	180
	GGAGTTAATT AGTTTTGTCA AATTTATAAG AATTTAACT TTTATATAAA TACCAAAGTA	240
40	TGTTTGTTC AAAAATTCGC TTTATCGnAT TAAATTCATG GTTTTATACC TCATACATTG	300
	ATTAGACATA ATAATCTAAA CACGACGTTA CTTTGATAT ACTnAATGGT nCACACTCA	360
45	GTAGGAAGCA CGCATTGCT CGATAATGTA ACCATACTCA	400

(2) INFORMATION FOR SEQ ID NO: 853:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

GGTGAATTG TAACATATA ATCGATATTA CCTTCAGTGT TCAAACTGG AAAATAATAA 60
 TTACCATCAC TCITTTTGTG GAATTTATAA ATTTTAAAG GTTCACCAAG TGTATACGAG 120
 5 GCTTTCTCTT TATTATAGAT TTTATCAAGT GAAGTAACAT AAGAAAGATA GTCTTTTGTG 180
 GCTAAATTAC GTACGTCAGT AGGAACACTC TTGCTCTCGA CATTAACCTG CACATGCTTC 240
 10 TTATCTTTTG CTITGATATT TGAATTGCTC TCAGCGTTTG CAATAGGGGT AACACTTAAA 300
 GAAATATTA AACTTAAAGC TATTAAATTT GAAAGTTTC TTTTCATATA AAAACTCCTT 360
 T 361

15 (2) INFORMATION FOR SEQ ID NO: 854:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 605 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 854:

25 ACnTTACT AGAnAAAGnT ATTAAAGTAT ATCTGCTTTA CACCATTAAA AAGCGGCAAA 60
 TGCTATAGAT AATCTAAAGC ATCTGCCGTA TGAGnATTTA TTTATTTTGT ATTGCATAA 120
 30 TCGTGGGTGT TTAATAATAT TGTTCTAGC TTTACAAATT TTGTTTTGTG AATGATTTTA 180
 TGAATAAAGT AAATCAACGC TAGAATGATT AAGGTAAAA AGTTTTTAAA AGCATTTAAC 240
 CATTGATCTT TAAAAATATA TTCAACTGAG CCACCAATA GCAAGAATAA TAGTGTAGTG 300
 35 ATGACAATGA TTGTCCTAA TGATAAAAA GGTGCTTTAT ATGGTAGGAC CTTATTAGGG 360
 TCTTGACCTT GTTTTTTAAT AGCTTGTCGC AATCGTATT GTGACCAAT GCTTGATCCC 420
 CAAACAATA TAATCATGA ACCAATAATT TCAAGTAAAT TAAAAACGGC ATTTGAATTA 480
 40 AAGTTTGCAT AAATAATAAC AATAACAACG ACTGCATAAG TAGTTAATAA TGCTCTTAAA 540
 GGTAACTTAG TGTCTTGTT TAATTACTT AAAAATGGG GTGCTTTTTT GTCTGAACCT 600
 AAGGA 605

45 (2) INFORMATION FOR SEQ ID NO: 855:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 515 base pairs
 (B) TYPE: nucleic acid
 50 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

TTGAACAAGC ATTTTAAAT AGTCAACAAC ATCAGCAAT TAGTGAAGAG GCACAACCTT 60
 TAAATAATCC AGATGAATTA ATGGCATTTT TAAAGAATAA GCGTAAAAAT ATTTTAGAAA 120
 5 ATGCATACAT TATGCCGCAT AATATGAGAG AAATGTTACG AAGTTATTG GAAAGTATGT 180
 CTCAGACTT TAATGTTGGC GGATTTTTTA ATAAAAAGAA GAAAAACTA CAAATTCAC 240
 AACAGCGATT ATTAACAGCG ACAGATGCGT TACAAGAACA TGTTAATCAA CAAATTCGTC 300
 10 AACCAATGCG AGAAGATATG TCATTGTGTA CGGTTTTAT CAATAAAAAA GmAGCTTCAG 360
 aTAmAGTATT AAATCAGCAT TATGACGTTA AGCCAGAAAT GATTGAAGGT TTATATCAAC 420
 15 CACAAACATC AATCAGCAAT ACTTATGTAC TTACATTTTC AGACGAAGTG GTTAAAGCCA 480
 TTAAGAAATA TGTTGAACAA CAATCAACAC CAATT 515

(2) INFORMATION FOR SEQ ID NO: 856:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1607 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 856:

30 GTCATTTTAA AAATTTCGCA TTGCGTTTAA ATTTTTCCTC TTTTTCCTTT TTCTTCTAGT 60
 GACATACTTT CTTTAGGTGT TTCAACCAAT TCAGATGTAT CTACATCATC AATTTTAGTG 120
 ATTTTGTCTA CATCTTCTT TAAATCTTCT GGGACGTTCT CGAAACGCTT ATATTGCTCT 180
 35 TTAGAGATAC TAGCAGCTAT TTCATTAGCT CCTAAAAATT CATCTATCAA GCCGAAAGAC 240
 AAGGCTTCTT CTGCACTAAG CCAAGTTTCT GCATCTAACA TCTGTTTTAA GTGTCTTGA 300
 TCTAAATCTT TTGCTTTATC TAAATAAGCT GAATTACTAA CAGCATCTGT TTTTTCAGAT 360
 40 AAATCCGCTG TCTTCTCTAA TTCTCTGCA TTACCTACAG TCATAACCCA TGAATTATGA 420
 ATCATTAAAA AACTATTTT GTGCATAAAA ATAGTGTAC CACTCATAGC GATAACACTA 480
 GCAATTGATG CCGCTAAGGC ATCGACATAG ATATTAATTT TTGCAGGATG CATTTTTAGC 540
 45 ATATTGTATA TTGCAITGCC TTCAAATACA TCGCCTCCAG ATGAATTTAT ATGAACATCT 600
 ATTTCACTGA TGTCTCTAG TTCACTAGT TTATTTTGA AATCTGTAGC AGTTACATCA 660
 CTTTCAAAACC ATTTATCACT TACAATATCA CCATAAATGa ATATTTCAAC TTACTTTTTT 720
 50 GATTTTCTTT TCATTGAAA ATACTTAGCT TTCATTGACA TTTTATCAC CACCTTTCaA 780
 AGATTTTCTT AATTCAAGTG GCGTGTCAAT TGGGTATAAA TCACGCTTA ATTAGCGGCT 840

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AACCCTACG AACTGCTTTA AAGTACACTT CTGCTTGTGT TGCCTATCA GCCCTTAAAT 960
 AAGATTTAAC GTTAAATTTA AAATACCTAT TTTTCTCTCT GTCTGTTTTA GTAAGTAGTT 1020
 5 TCCGATTAAn TTCTTCTTCA TACTGTTTGA CGATTGGCAA TAAGGTATGC TGCAAGTAAA 1080
 ATCTGTTTAA CTCTTCATTT TTCGCGAAAT TTGTATTGA TCTTGCAITTT AAGAATATTG 1140
 10 AGGGCAATTG AAAAACGTTA GCTACTCTTT CTCTTGTTAA ATTCTCGCTT GCCACTATAT 1200
 CTTCAGAGAC ATATTTTTTA GGTAAAGGTT CGATTTC AAC ACCAGGCTCT TGAATAATA 1260
 TTCCACCGTT TTCTTCATAG TACTGTTTGA AATCTTCTAA CACTTGTTCG CTTTTTCTG 1320
 15 TACTTACATT GGAACCATAT TTAAGCATAA AAGAATCTGG TTTTGCATT TCTGTAAGAT 1380
 TAAAGGTTCT TACTGCATTG TCAAAATCAG TTGTATTCTT CAACACATCA ATCGGACTAA 1440
 TACCTTGAAC CATATTAGAT GCCACGATGT GTTAAAAATG CAACATGTCC aTATTATGAA 1500
 20 CAATCAATTT ATTTCCAGTT GCAGCATGAA TGAATAATA AAGTTCACCG TGATTGGTTT 1560
 TCAATTAAAC TTTCACAAC ATCTGGATT AATAAGAAAA GCTTTGA 1607

(2) INFORMATION FOR SEQ ID NO: 857:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 346 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 857:

35 ATCGCGATTT AACCAGATTT AGAGATGCTG AAGATCAGTA TAAAGCTTTG TTAGAAATTA 60
 CAACATTACC AGAAGGTAGA ATTTATGTTG CTCGCCAAGA TCAACTCATT GTGGGTTATG 120
 TCACCTTTCA CTATCCTGAT GAAATTGAGC GCTGGTCTAC AGGTAAGCTT CCATATTTAA 180
 40 TCGAATTGGG GGCATTTGAA GTCAGCATCA ATTTTAGGCA ATTACAACCT GCAGAAAAGC 240
 TGATACAACCT TAGCCTTCTA CACCAGAATT CGAGAATTAT ATCGGnATAA CTACAGGATA 300
 TTACCGGCAT TGGGGGTTTA AAAAATTCCT AGTnAGAGGT ATnCC 346

45 (2) INFORMATION FOR SEQ ID NO: 858:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1176 base pairs
 (B) TYPE: nucleic acid
 50 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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ATTACTATAA TGAATCTTGC GAGATATTTA GAAGTAATGA TACAAnATAA TGGACTTTAG 60
 AATTThaATT TACAATAAAT AGTTCTATGA TTAAATGTCA GTTTTATGAC ATTTATTAT 120
 5 TGAATAACG AACGAATGaG CGATaTGATA ATATAGATAA GAATGATTTT AATTTAGGAG 180
 GCCTTTATG TGCATAATAA AAACAATACA ATTTTAAAAA TGATCAAGG TGAAGAAACA 240
 10 TCACATACAC CTGTTTGGTT TATGCGACAA GCTGGCCGTT CGCAACCAGA ATATCGAAAA 300
 TTGAAGAAAA AATATTCACT ATTCGATATT ACACATCAGC CGGAGTTGTG CGCTTATGTA 360
 ACACATTAC CAGTTGATAA TTATCATACA GATGCAGCAA TTTTATACAA AGATATTATG 420
 15 ACACCATTA AGCCAATTGG TGTCGATGTA GAAATTAAAT CGGGTATTGG TCCAGTGATT 480
 CATAATCCAA TCAAAACAAT TCAAGATGTT GAGAAACTTT CTCAATAGA CCCCGAACGA 540
 GATGTACCAT ATGTATTAGA TACAATTAAA CTTTAAACAG AAGAAAAGTT AAATGTGCCG 600
 20 CTAATAGGAT TTACTGGGGC ACCATTTACA TTAGCGTCAT ATATGATTGA aGGCGGACCA 660
 TCGAAAAAT ACAATTTTAC AAAAGCGATG ATGTATAGAG ATGAAGCAAC ATGGTTTGCT 720
 TTAATGAATC ATTTAGTTGA TGTATCTGTT AAATATGTAA CAGCTCAAGT CGAAGCAGGT 780
 25 GCCGAATTGA TTCAAATTTT CGATTCAATG GTAGGTGCAT TAAATGTCCA GGATTACAGA 840
 CGTTACATTA AACCACATAT GATTCGATTA ATCAGTGAGG TTAAAGAAAA ACATGATGTG 900
 CCGGTAATTT TATTCGGTGT AGGTGCCAGT CATTTAATCA ATGAATGGAA TGAATTTACG 960
 30 ATTGATGTAT TAGGCCTAGA TTGGAGAACG TCTATTAATC AGGCTCAACA ATTAGGCGTT 1020
 ACTAAAAAT TACAAGGGAA TTTAGATCCA TCAATTTTAT TAGCACCATG GAATGTCATT 1080
 35 GAAGAGAGAT TGAACCAAT ATTAGATCAA GGTATGGAGA ACGGTAAACA CATCTTTAAT 1140
 TTAGCACACG GTGTATTTCC AGAAGTGCAC CAGAGA 1176

(2) INFORMATION FOR SEQ ID NO: 859:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 621 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 859:

50 ATTTGTGCA TTGGTAnAAT TGACCTGAAA GnAAAAAGTG GTTTAGTTGC ACATTGAGTG 60
 nAAGTGCAGC GATGAATTAT GTTGAAGAAC TGAGGAAGAG CACCTTTGCT GTTGGTGATG 120
 AAGTAGACGT AAAAGTATTA TCTATTGCTG ATGATGGAAA AATTAGTCTT TcAATTAAGA 180

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5 AAAAAGCCGA AGATTTTGAA AAGAAATTAA GCAATTTCTT AAAAGATAGT GAAGATAAAT 300
 TAACCTCAAT CAAACGTCAG ACAGAACTCTA GACGCGGTGG CAAAGGTTC AAGCGTTAAT 360
 TAAATAAAAT AAGACTGTT TCGATAAGGA ATATATTAG AATGATGCGT ATCGAATAAT 420
 CGATTGCAGC GTTAGACAACT CTAAGACTGT TTCTTAAATA AGGAGCAGTC TCTTTTATTT 480
 10 GTAATGATAT AACTAAGACT TATACCATT TTGAAAATTG TAAAGTGAG GTGATGTTAT 540
 GCAGTTAAAT AGTAATGTTT GGCATGTTGA TGACCATATT GTTGTCGCTG TTTCTACAGG 600
 TATTGATAGT ATGTGTTTnn T 621

15 (2) INFORMATION FOR SEQ ID NO: 860:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 544 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 860:

25 TATATTAGGT ACTGTGTTG GTATTGTGCC AGCTTTGCTG TCTACTATAA TTCTAAAAG 60
 GTTGAACAT ATAAAGGGA AAGTGCTAGG TGTATTAAAT TTTGTGAGAT ATATTGGAAT 120
 30 GACTGTCGGT GCATTATTAA TTGGTATCAT TTCTCAGCGG TTGGTAGCCT TTTACTTCAC 180
 AACTATAACT ATCATGTTAA TAGTAATATT TCTTTATATA AAGATAGTTG ACTTTCAGCT 240
 AAGTATGCC AATAAACTT AAAAAAGCAG TGAATCATTT CAATAGATGG AATGATTCAC 300
 35 TGCTTTTGTG TTATAGAAAT TTAATAATCA TGCCTTTATG CTAACAACAA TATTATTTTA 360
 CTCTCTTACG TTTGCCAATG TAACcGTATA GCAAAGTAAA TGACTGCGAT AATGATGACA 420
 ACATACATAT ACGTGAATAG GAAGGAAGAC CAGTCATCAA CATACCAAG CTATCGCTCA 480
 40 AAGTGCgCT GGTAAATTAA ACCGAATTCC AnGATTGTAG GAACCCnATT AATGGAAATA 540
 ACGG 544

45 (2) INFORMATION FOR SEQ ID NO: 861:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 651 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 50 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 861:

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AATTAAAAAT ACATTTATGC TTTACCCATT CGAAAAATACC TTAATCATT TCATTTATAG 120
 CATTGTTTGA TTGAAGGATA AAAAGTTGTT GTTTACAATA AAAATAATGA GTATCTGAAA 180
 5 TGAGGGATTC AnTATGACAC ATGTGGAAGT AGTAGCGACT ATCGCGCCAC AATTATCTAT 240
 CGAAGAAACT TTAATTCaA AnATTAAATCA TCGTATTGAT GCAATAGACG TATTAGAATT 300
 10 ACGAATTGAT CAAATTGAAA ATGTCACAGT TGAATCAAGT GCAGAAmTGA TTACAAAGCT 360
 GaAGGTTATG CAAGATTTCAT TCAAAATTATT AGTTACGTAT CGTACAAAGT TACAAGGTGG 420
 CTATGGGCAA TTTACAAATG ACTCGTATCT TAATTTAATA TCAGACTTAG CAAATATCAA 480
 15 TGGCATAGAT ATGATTGATA TAGAATGGCA AGCAGATATT GACATTGAAA AACATCAACG 540
 AATCATTACA CATTTGAAC AGTATAATAA AGAGGTGGTT ATATCACATC ATAATtTCGA 600
 AAGTACGCCCT CCATTAGATG AATTGcAATT TATATTTTTn nAAATGCAAA A 651

(2) INFORMATION FOR SEQ ID NO: 862:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 401 base pairs
 (B) TYPE: nucleic acid
 25 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 862:

30 TGTGAGTGT AATGACACAC AAGCAGATTT AATAGGTTAT AGTTTTAAGT TTGACGGTGC 60
 GATTTCaAGG CAAGAGGCTT CTAAGATGT ACATGCAGTT ATATTATCGA ATAAACACT 120
 35 ATATTATTA GATGTATTAC AAAAATTACC GATAGATAAA ATGAATTCAT TGAATATCCA 180
 TCAAGAAATT ATTGATGAAA TGTGAGATAT CATTTTAATG TTATATCGTG AATATGCAGG 240
 TATGTTTTTT AAAAGTCAGA AACTAATCAA CCAATTAAAA AGATTGGAmC AATAAcATA 300
 40 AATAATAAAA GGTATTCAAG TAGCCACATA GATGTGTTTA TTGAAATACC TTTtkGAATA 360
 GaaAAGaGAT ACTGgcAATT TTACTAACCA GtAtCTCTTT T 401

(2) INFORMATION FOR SEQ ID NO: 863:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 308 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 50 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 863:

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	ACAAAGTAAT CAATATGTAA TATAAAATAC ACTGGTACTC AATATATAAT GATGATAAAA	120
	TTAATTTTAA TTAGATAGAG TTGCTTTGTG TTTTAAACGC ngATGCTACT ACTTATCTTA	180
5	ACAGTTGATT AAGTAAATCA TTTAACAGCG AGATTATnCA ACCAGGGGGA TGACTTAAATG	240
	AATTTATTCA GACACCAAAA TTTAGTATCA GAAATTTAAT GTCGGTATTT TTTCAGCTTT	300
10	AATGCCAC	308
	(2) INFORMATION FOR SEQ ID NO: 864:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 1827 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 864:	
20	TTCTACATCT TAAACGATGA CCTAACTATG ACGTTAATCT GGAAAGATGG GGAGTTGCTA	60
	GTATGATGTT GAAATTTAAA CCTTGGGATA AAGATAAAAA AGTTATGAGT ATTATTGACG	120
25	AAATCGATTT TAATAGTGGG TACATTTTGA TTTCACACAGG TTATAAAAGT TTCAATGAAG	180
	TAAAACTATT ACAATACACA GGATTTTAAAG ATGTGCACGG TGTGGAGATT TATGAAGGGG	240
	ATATTGTTCA AGATTGTTAT TCGAGAGAAG TAAGTTTTAT CGAGTTTAAA GAAGGAGCCT	300
30	TTTATATAAC TTTTAGCAAT GTAACCTGAAT TACTAAGTGA AAATGACGAT ATTATTGAAA	360
	TTGTTGGAAA TATTTTGTAA AATGAGATGC TATTGGAGGT TATGAGATGA CGTTCACCTT	420
35	ATCAGATGAA CAATATAAAA ATCTTTGTAC TAACTCTAAC AAGTTATTAG ATAAACTTCA	480
	CAAAGCATTA AAGATCGTG AAGACTACAA GAAGCAACGA CATGAGCTTA TTGGGGATAT	540
	AGCGAAGTTA CGAGATTGTA ACAAGAAGCT GGAGAAGAAA GCAAGCCGAT GGGATAGGTA	600
40	TTGCAAGAGC GTTGAAAAAG ATTTAATAAA CGAATTCGGT AACGATGATG AAAGAGTTAA	660
	ATTCGGAATG GAATTAATAA ATAAAAATTTT TATGGAGGAT GACACAAATG AATAATCGCG	720
45	AAAAAATCGA ACAGTCCGTT ATTAGTGCTA GTGCGTATAA CGGTAATGAC ACAGAGGGGT	780
	TGCTAAAAGA GATTGAGGAC GTGTATAAGA AAGCGCAAGC GTTTGATGAA ATACTTGAGG	840
	GAATGACAAA TGCTATTCAA CATTAGTTA AAGAAGGTAT TGAAGTATG GAAGCAGTAG	900
50	GGATTATGCG AGGTCAAGTT GTCTATAAAT ATGAGGAGGA ATAGGAAAAAT GACTAACACA	960
	TTACAAGTAA AACTATTATC aAAAAATGCT AGAATGCCCG AACGAAATCA TAAGACGGAT	1020
	GCAGGTTATG ACATATTCTC AGCTGAAACT GTCGTAATCG AACCACAAGA AAAAGCACTG	1080

AGTGGTGTAA GTAGTAAAC GTATTAGTG ATTGAAACAG GCAAGATAGA CGCGGGATAT 1200
 CATGGCAATT TAGGATTAA TATCAAGAAT GATGAAGAAC GTGATGGAAT ACCCTTTTTA 1260
 5 TATGATGATA TAGACGCTGA ATTAGAAGAT GGATTAATAA GCATTTTIGA TATAAAAGGT 1320
 AACTATGTAC AAGATGGAAG AGGCATAAGA AGAGTTTACC AAATCAACAA AGGCGATAAA 1380
 10 CTAGCTCAAT TGGTTATCGT GCCTATATGG ACACCGGAAC TAAAGCAAGT GGAGGAATTC 1440
 GAAAGTGTTC CAGAACGTGG AGCAAAAGGC TTCGGAAGTA GCGGAGTGTA AAGACATCTT 1500
 AGATCGAGTT AAGAGGTTT TCGGGAAGTG ACGCAATACT TAGTCACAAC ATTCAAAGAT 1560
 15 TCAACGAGC GACCACATGA ACATATTACT GTGGCTAGAG ATAATCAGAC GTTTACAGTT 1620
 ATTGAGGCG AGAGTAAAGA AGAAGCTGAG CGCAAAATAG AGGCACAAGT TAAGATAAGG 1680
 AGAGATGGAG ATGCCAAGA AAGCGGTAAC GATTGATGTA GATGAAAAC TATTAGTAGT 1740
 20 AGCTAGTAAT GAAATATCAG AACTATTATA TGAATATGAC AGTGAGTTAA GTGCAGCTGG 1800
 ATGGAAGATG GCGATAATAG GGATATC 1827

(2) INFORMATION FOR SEQ ID NO: 865:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1379 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 865:

35 TCAATTGCAT CATCATATGA AATTCTAGGG AATGGTGTGC CAACTTTTTC AAGTTTGTAT 60
 GTATCAGCT CTAATAATTT CAACCTAGT TTACAATTTT CTAATACTGA TTTTACAACA 120
 TGTGTTACAT ATTGTTCTTG AATTTCTAAA CTTTCAGCAT GATTGTGAA AGCCATTCTC 180
 40 CCTTCAATCA TCCAGAACTC GATCAAGTGT CTACGTGTTT yTGATTTTTC AGCTCTGAAA 240
 GTTGACCAA ATGAAAATAC TTTCCGTGT GCCATTGCTG CAGCTTCTAA GTATAACTGA 300
 45 CCACITTGAG ATAAAAACGC ATCTTGATCA AAGTATTAG TATGGAATAA TTCACTTGTA 360
 CCTTCTGGCG CACTTGCTGT CAAATTTGGT GGATCAACCT TTGTAATTC ATCTTGTGTTG 420
 AAAAATTCAT ACGTTGCAG AATAACTTCA TTTCTAATT TCATTACAGC ATGTTGTTTT 480
 50 TTAGAAGCTA ACCATAAATG ACGGTGATCC ATTAAGAATT CTGTACCATG ATTTTTAGGT 540
 GTAATCGGAT AGTCATGCGC TTCTGAATA ACTTCAATTG ATTTCACTTG CATTTTGTAT 600
 CCTAAGTCAG AAGGATTATC TTCTGTAATT GTGCCTGTAA CGTATAGAGA TGATTCTTGA 660

	TGCATAAAGC CTGTTCCATC ACGTAATGTG AAAAAGGCGA TTTIACCACT TGAAAGTTTA	780
	TTGTGTAACC AAGCACCAAT TGTAACGCTG TGGTTTAAAT GATCTTTCG TGTGTTAATC	840
5	GTGTGTTTCA TAACCATCTC CCTATTATTT TTTTCGKTAT ACAATACTCA TTCATTTTAA	900
	CAAAATCCGC TTTCAGGTTT TAGAACTAGA CTAAGAATA ACGTGTAAT GGAATGATT	960
10	TACGCACAGA TTGGAACATT AATTATATTT AAGACAATC AATCATCAGT TTCAGACAAA	1020
	ATATATAATA AAGCCTCAAT ATTATTAGTA TGAAGGTGTT TTTTGTGCT AACATTCAAG	1080
	TTTAATTATA AAACCTCAA TTTGACGACC AAACAAAAAT TCTTGTAACA GAACATAGCA	1140
15	CATGTCATGT CACAAGAATT TTACTTTGTA TTTCACTTT TCTTTTTTTG AATTGTCTTT	1200
	AATAATTITC CAAACTGTTG AATGTCGCCT TTTTCTGAC GATAATTTTC AAGTGTGTT	1260
	TCAAAAAAGT TTTTATAATT ACTGTTTATG AGTCGATCAT CAAATGAAC TATTATGCG	1320
20	CGATCATTTT CATTCTAAT TAATCTTCCA AGTCCTTnGT CTAnAACGTG TAATGTCAT	1379

(2) INFORMATION FOR SEQ ID NO: 866:

	(i) SEQUENCE CHARACTERISTICS:
25	(A) LENGTH: 450 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 866:

	TTACAACGAA TAGTTCACCG TTCGAGTCTA ATCTATGTAA TGCTTGCTCG AATATACGAT	60
35	GCACGGTTTC TTCCCTGCT CTTATTGGTG GATTGGTTAA AATAAAATCA AAACTTTGT	120
	CTTCCACAGC AGACAAAGCA TCACCTTCTT TTACGATCAC ATTATCAATA CCATTTAATT	180
	TTTGTGTTTT TTCAACTAAG GCTAGCGCTC TGTGATTAACT ATCTAGCAAT GTAATTGAAT	240
40	GATGTGGTGA TACTTTAGCA ATCATCAAAC CAATTGGTCC GTAACCAAA CCAACATCGG	300
	CAATTCGCTT ACTTGGACCA GGTGGATGCG CTTTAAAAA AGTTTGAAAC AGAACATCTG	360
45	aACCATAATC TACTTTATCT TTCGAAAACA CTCCTATCA GTTATTAAAT CAATTTTATG	420
	AnGGTTnTAA TTGATATTG AGTACGTTGT	450

(2) INFORMATION FOR SEQ ID NO: 867:

	(i) SEQUENCE CHARACTERISTICS:
50	(A) LENGTH: 400 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 867:

5 AATGTTAACA ATATAGCACC AATTAACCCC GACATGATAA TAACGTGTAA TGTITTTATTT 60
 CCTATTAAAT GTCTCGCAAT ATGAGGTGCA ATTAATCCTA AAAAGCTAAT ACCACCGACA 120
 ACTGAAAATT CGGATCCCTGC TAATATTACT GCTAAAATTA ACAATAGCAT TTTAATAGTT 180
 10 TTAACITTTA AACCGAGTGC GGTTCGAACA GCATCACCTA GATTCAATAC ATCTAATTGA 240
 TAACTCCATA AAATGATGAT GGATCGTTAT TAAACCAGG GAATATAGAT AATATCCGCA 300
 TATCAGGCCA TATAGCTACC TGTCCACAAC AGGTTTnTGC TCCnGGTTC TnTAATAAGA 360
 15 CGCACACGCG ACAATGCGCT TGCTACCATT AGGCAGCTTG 400

(2) INFORMATION FOR SEQ ID NO: 868:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1132 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 868:

AATCChnAA GTGCCATAAC ATCATCTCCT AACATCTTTA TTATACATCA ACATTTTATA 60
 30 AAAATAACnT CTTATGATAA AAATGAAAAT ACTAATTTTA ATGAGAGCGT CTTAAGCCGC 120
 AATTGATAAA ACATATGCTA CAATATTTTT AAACACTATA CAGGAGGTAC TCTATGACAA 180
 AATATACATT TAAACCTAAA GATTTCAAAG CGTTCAACGT AGAAGGCTTA GACGCACGAA 240
 35 TGGAGCGTTT AAACGAATAC ATACGaCCAC AACTCCGTGA ATTAGGAGAA TATTTTAGTG 300
 ACTTCTTTAC AAGTCAAAC TGTGAAACAT TTTATCCTCA CGTAGCAAAG CATGCTAGAA 360
 GAAGTGTGAA TCCTCTTAAA GATACATGGG TTGCTTTTGC AACAAACAAA AGAGGCTATA 420
 40 AAATGTTACC TCATTTCCAA ATTGGTATGT TTGAAGATCA ACTGTTTGTT ATGTTTGGAA 480
 TCATGCAATG AGCAAAAGAT AAAGCAACaC GTGCAAAAGT TTTTGAAAGA AAATTTAAAG 540
 45 CTATTCAACA ATTACCTGAT GATTATCGTG TTTGCTTAGA TCATATGAAA CCTGATAAAC 600
 CATTTATTAA AGATTTAACG GATGATGATT TAATAGAAGC GATACAAAGA GCCATCAATG 660
 TGAaaaaaAG TGAATTCITT ATAGCGCGTG CAATCACACC ACAAGATAAA AGATTAaaaa 720
 50 GTGACAAAAG ATTTATTGCA TTTTtagaAG AAACCTTCGA TCAGTTCTTA CCATTTTATT 780
 CTGCATAAAT AACTTTGTTT AAATAATAGA GCACCTTAATC ACATCCaTGA TTTCTGTCtC 840
 TtTtTTTCTTA ATATTAAATC GAACGTtCAA CATAaTAATT CATACTTTTA AAAAAATTAA 900

GGTGAGTCAA AATGAATAAT AAACGACATT CAACAAATGA ACAATTAAGT TTAGACGAAA 1020
 TAAACAATAC AATTAAATTC GATCATCGCA GTTCAAATAA ACAGAAATTT TTATCATTTTC 1080
 5 TTGGACCTGG GTTATTAGTC GCTGTTGGTT ACATGGATCC CGGAAACTGG AT 1132

(2) INFORMATION FOR SEQ ID NO: 869:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 418 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 869:

CTCAATGTAT TGACTGIGAT TTGGAGTGTA TAATGCTACT GTTTTGICTA TAGCCATCGC 60
 20 ATCAAATATT ATATTTGAGT AATCAGTGAT AACGACATCA GACATTAGAA TTAAGCTTTG 120
 AGCACTAAGA TACTTTGGTG CAACAAGCGC CTCCTCTGGT AAGATCGCTT CATCAACACC 180
 CTGAACCACA ACATGATAGG CTTTGAATAA AGCATCTGAT AGTGSTAATT GTTGCGCACT 240
 25 CACTAATCCA ATAGGTGCGT ATAATAAAAC TGGTTTTTGA TCATTTATTT TAAACGATTT 300
 CTTATACGTG TGTGAGTAG TACTTTCGTT ACTCTTTTGT AGTAAATATT GGTGTTTAGG 360
 ATTACCATAA GCCAATACAT TGCTTGGTGA CTAGGAAAAG nCGTTTGATA AAAGGGCT 418

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(2) INFORMATION FOR SEQ ID NO: 870:

(i) SEQUENCE CHARACTERISTICS:
 35 (A) LENGTH: 587 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 870:

GAGTnTGTTA CAGTAATTGA TTTTATTGGT AATTnTAAGA CAAATTATTT AATTCCGATT 60
 GCGCTTTCTG GGGATCAATC GCAAnATAAA GATAATTATA AGAAGTTTTT AACGAATAAC 120
 45 GATTCGATTA ATGGAGTATC TACAATTAAAT TTTGAAGAAG TTGCTAAAAA ACAGATTTAC 180
 AATTCATTGG ATGCAGTATC ATTAAATCAA AATAAAATTA TATTAAAAAGC TTATGAAGAA 240
 50 GTTGAATAA GATTGGGACA CATGCCGTTA CTAATGGATT TCATACAACA ACATTCTATA 300
 GATCCAAGCG TTATATTTTC TAAATTTAGT AATTATTACG AGTTCCTAGT GAGATATAAA 360
 AAAATAGATA CATTATTGAC GGAAATGAA TCTAAAAATC TGGTTTTCTT TTCAAGGCAA 420

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TTAACATATG ATGAATTAAG AAATAAAATG TTGAACGAAG TTAAGGATAT AACAGAAGAT 540
 GATATAGATA CTTCATTAAG AATTTTAGAT TTTTCATTTT ACAACGC 587

(2) INFORMATION FOR SEQ ID NO: 871:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 971 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 871:

CTACTAAACC AGGTAATCGG TAGAATCCAA GCAGGAATAA ATAAATTATAT GCACACCCAA 60
 TAAACGATGC AAACACAGTn TTATCTAATG CATCTTGACC AAATTGGGCA CCTACTGAGT 120
 TTGAATAAAT TTCTTTCAAG TCAACTGSTA AAGAACCTGC ATTTAAACAAT KCGGCGATTT 180
 GTTTTGCTTT TTTAACGCTT TCTTGCTCTT TAAATCCACC CGAGATTCTT ACGCTATCAG 240
 AATTGATTGG TTGATCAACA CTGCTGCAG AAATAAATT AGGGTTTTC TTTTGCTCTT 300
 CTTTTTTATA GCTGTCACCT TTTTGAAT CTAACCAAAC AACCATGACA TTATCACGTT 360
 TCTTAGAGAT TTCTCCGTT ACTTTTTTAA ATTGTTTTT GTCTTTTACT TTTAAAGTAA 420
 CTGTAGGcTG GTTTGTTTCC tGtTTAAATT CTTGtTTGGC AGATCCCTGT TtAATATCAG 480
 AACCGCTTAA TTTtACTTTA TCTTCTGCAT CGCGAATtGT TAAATTAGCT TGAGAAGATA 540
 AAATTTTACG TGCTTCATTC TGSTCTGTTA CACCAGCAAG TTGACTCTA ATTCTATTAG 600
 GTTCTTCAAC TTGAATTTTA GGTTCCGAAA CACCTAAAC GTTAACACGA TTTTCTAATG 660
 TTTGCGCTGT TGATGTAAG GCTTTTTTAT CTATTTTGTC GCCTTTATTT AAAGGATCGA 720
 CTGTATAAAG CACCTCAAAAT CCACCTTGCA AATCAAGTCC TAAATTGmCA TTCTTTATAA 780
 CACTTTTATA AGTTGcAGCC ATTCCGGCAA ACAACAATAC GACTAAAAGC AAGAAGCCAA 840
 TTATTCTACT ACTTTTCTTC ACATGAACAC CTCATTATTT ACGTATGTAT TTAGAATACT 900
 TGAATACTAT TTTATAACGC AAGTGAAATC TTTCTTACAA AATTTATTAG CCTTATACAT 960
 ATTAACATAC T 971

(2) INFORMATION FOR SEQ ID NO: 872:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 636 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 872:

CTGGTTAACA ACATCTGGTT CGGCATCTCC TTAGCTTCCA CTAAATCTTG GATGCTCTGG 60
 5 nnATCTTGGC CAAGTnGTGC TTTGGCTTGT TCAATTtCTy CTTTAGTCAT CGCATTGTTA 120
 ATGCCGTTAT GACCTTGTGG AAGTATTTGA TTAATACGAT CTTTAAGTGC TTGTTTTTCC 180
 10 TTATCTGTIA GATTTGGATT TCGATCAATT TCGTCAATTA ATGCTTGAAC TTGCTTATCA 240
 ACGTCTTTAT TGGCATCAAT TTTTGCTTTT GGTATTTCAT TGSCATGCAC TTGTCAATC 300
 GCGTGGTTGC CTGCTGTTTG AACTTGAGAT ACAGCCTGAT TACTTGTTGC TTTATTAAATG 360
 15 TTGTGTATGA TGCTGTTTGC CAATTCTTCT GCTTTATTTT TCGCAATAAG CTTGCTCTGA 420
 TCCGTGCGAT TTGAAGCTTC GATTTCCTTT AGCTTATTAG CTAAAGCTTG ATTAATAGAT 480
 TGAATTGCGT TGCTTTTAGC ATCTTGTAGT CGTTGATCAC CATTAAAGATT ATGGATTGCA 540
 20 TCATTGACTG CTGGATTGTC GCCATTGATA TCATTCACAT tTGtGtATCA CTATTAGCA 600
 ATGATTATTGC TAGACGTTgC CATCATCGAA GTTTGT 636

(2) INFORMATION FOR SEQ ID NO: 873:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 659 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 873:

CTCTGAATGC ATTCATTAAA CGCTGGGTCT CTTTATATGA AACGTATTTG TCATTTTTGA 60
 35 AACTCAATCC GTAAAAATG TCAACTTTCT TTTTAATAT ATCGTAATCA ATGGTTACAT 120
 TACTTAAATC AATATCTAAA TCTATATTTT CTGCATCTTC TTAAAGCCCC GCTATACTGA 180
 40 AAAAGCCTTC AATCGGCTGA TCAATCATTT CAATATATTT TAAAGCTGTG ATTGAACCTA 240
 AACCATGTGT TACAAAATAT GTATCCTTTT TCGGTACATT AATTGTGTTT GTCATAGCTT 300
 CAATCCACTG ATCCACTGTC TTCGCTtCAG GGGATTCAAA ATTAATAATAT GTTACGTCAT 360
 45 ATCCTTCTAA AGTTAAGTTA TGCTCCAACC ACTGATACCA ATGATTTCTA CTATTCCAT 420
 GCATAGAATG TACAATAtTA CATCTGTCAT CTCATTCTCT CTTTCAACT TACTACTTCT 480
 50 TTTCTATTTT TAAAAAATG ACTGATTACC TATAATTGTA AAATAAAAC ACCTTAATTA 540
 GAAATGTTAT ATCGCAAGT GACATTCTTA ATTAAGTGT ATTGTATCA TTTCATATC 600
 ATTCAAAAAC AGCTAAACCT TTGCTCTGTC TTCAATTICA CAAAAATAAT TCCCGCTGA 659

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 315 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 874:

AAAATAAAAT	CCATTTTAGT	ATTCGTAGAA	AATGAGAGCC	CCCTTTACCA	CAATATGTAA	60
ATGTATATTG	TGAAAAGGGG	GCTTTTATTT	ATGACATAGT	TGTTCAACTC	ATACATTCAG	120
TTGATAATGC	AGTGGTTTAT	GCAGCTATCC	ACTTCATATG	TATGGCGCAT	ACTTGATATA	180
TGAATATCAT	CAAGATTTTA	AAAGTATCGC	TAATTTTAAA	GTCTTAAAAAC	GCAGATTAAAT	240
GGTCATGATG	TGTTATnTGGC	TTTGGGTTTT	TAGAGCCACG	TAATTCCTCA	GGACATATAG	300
GAGGAACCAT	TCCAC					315

(2) INFORMATION FOR SEQ ID NO: 875:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 482 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 875:

TACACGACCT	TGTAACCTAG	CTGCTTTTATA	AGCTAGGGCG	ATGTTATCAA	AGTTGGATGT	60
ACTTTGAGCT	TGGCATTTTCG	TTAATACITTT	TAACGAAGGA	TTTAATATAT	GTCTGATACG	120
TATATATTGA	TTATATTCAA	TTCTTaatTt	GGATAAGAIT	GCTGATAAAT	TGAAGCAATC	180
GGAGCTAAAT	GGATCGAAAA	ATGAATAAAT	TTCGAITTTA	CTTACAGGTG	ATAGaTTGAT	240
ATCTTCACGA	CTCTTATTTT	CCATTAWTCG	TAATTCCTCCA	GCCATGTTTA	TTCACCTACA	300
ATTAATTTTA	GGAATTCACC	ATATGaTTAG	CAGTTAATCT	TaAGCGCTCA	AATAAATAAT	360
CTCCAACACC	TTGTGGAAAC	CaGCGCaTt	AATTGCTGTC	TGCATATTTT	CTAGCCATGC	420
ATCTCTTTCA	AATTCAGTGA	TTGTAAAATC	TATATGTCCTT	TTTCTTAGCA	TAGGATGTCC	480
GT						482

(2) INFORMATION FOR SEQ ID NO: 876:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 670 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 876:

5 ATGCAATTGA ATTCTTAAAA CGACAAGGCT TTGATGATAT TGAATGGGCG GAAGATTTTG 60
 GTGCGCCACA TGAACAGGCC ATTGCTAATC ATTATGATTT ACCGGTGTIT ATTACTAATT 120
 10 ATCCAACATA AATTAAGCCT TTCTATATGC AACCAATCC TGAATAAGAA GAAACTGTAT 180
 TATGTGCAGA CTTAATTGCA CTGAAGGAT ACGGTGAAAT TATTGGTGGA TCTGAACGTG 240
 TGGATGACTT AGAATTGTTA GAACAACGCG TTAAGAAACA TGGATTAGAC GAAGAAGCAT 300
 15 ATAGTTACTA CTTAGACTTA CGTCGTTATG GTAGTGTGCC ACACGTGGA TTTGGTTTAT 360
 GTTTAGAGCG TACAGTAGCA TGGATTTCTG GTGTTGAACA CTTCTGTAA ACAGCGCCAT 420
 TCCCAAGATT ATTAAACCGT TTATATCCAT AAGTTTTAGG GTCGTTACTT AAAATATATA 480
 20 TTATGATAAT AAAAAGAATC GTCCAGCCTA TATTAATAGC TGGCGGATTT ATTCTGGGAA 540
 AATGAAGATT GATAACGGCT TATATTAATC ATGAACAAAC TTTTGGTTTAT TAACATATAT 600
 TGGAAAATAA AGATTTCATC TGATTATCCA TAAAGTTCAT TGTAAAAATC TAGTGTTAAA 660
 25 AAATACTGTT 670

(2) INFORMATION FOR SEQ ID NO: 877:

- (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1258 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 877:

30 TGCAAGATAA ACTGGATGGC TnTCTTGCCG CCAAGGATCT GATGGCGCAG GGGATCAAGA 60
 40 TCTGATCAAG AGACAGATCC TAACCTCTCA TTCCGATAAA GTTTAGTATG TATTATAGGT 120
 GATGATTnTC TTGTTTTCAA CCTTATACAC AATATTTTG AnATTATAT TATATTCATA 180
 45 TAAGGAAGGC GATTAATTAC GATTTCATCAT TATATCTCTA CGTGTTAATT TATTAACCTA 240
 TACTATATTT ATCAACACAA CAGTTTTTCC TTCAITTTTC AAACATAACA GAAAAGCCT 300
 GAGACATACT TAGTCCAGAG CTGTTCTATA ATTAATTAAG GATATAACAA GGTTAATCAT 360
 50 TCAAAGCTAA CATCACATTT ATTCAGTCTA ATTTTTCATA AAGAATAATA ATGACTGTAA 420
 TTCTATACCT AAGTCAATTT GATGTACTTG CACATCTGAA GGCGTATTAA TTCTACCAGG 480
 AGTGAAGTTT AAAATACCTT TCACACCAGC TTGGACGAGT TCATCTGCAA CTTTCTGTGC 540

TAATTCATCG TTATCTTTAA CAATAACGTT CCCTATTTC TGGCCAATAA CATCTTCITT 660
 TACGTCAAAC GCTTCTGTAA TCGTCATATC GTCATGTATT GAAAAGTTAT ATGTGAGCAA 720
 5 AGCTTTCCTC AGGTTCCCAA CTCGACAAT TGCATTGTTG ATCATGTCAC TCTCGCTTAG 780
 TTCAGATTTA AAGAAATCCA ATAACTATC TATATTATAT CCGTACCTT TTTACCTAA 840
 10 TTCGCCAAA TATGAAAAGT CACGACGAAT TGTGCGGAG TCAATTTGTA ACGCATCGCT 900
 AATCGCTTTT GAAITTTACAC GATCTATACC TTTAGATTTT AATGAACTGA CAATCTATA 960
 ATATAACGGC AAACGTTTTA AAGTTGCTCG AGGAATTTTA ACTTGGTCAC TCATTCGCTA 1020
 15 TTCTCTCTT CGTGTGTGAA TGAATTATAT CTATGTATTC AAACGAGTTA GAGCGTAATT 1080
 GTTAGATTAT TAAAACAA ATAATTGATT ACAATGAATA CCTAAATATT ATACATTAA 1140
 GAAITTTAAA AATAAATATC TTAGTTTCAA GACGGCGTTT TATACTGTAA AATGGTTATT 1200
 20 AATGTAATAA TTACGTTGT TTCTAAGTT AATAAAATTT GAGAAGACGA AGGTGAAG 1258

(2) INFORMATION FOR SEQ ID NO: 878:

(i) SEQUENCE CHARACTERISTICS:
 25 (A) LENGTH: 546 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 878:

AACAATCCC CnCAAAGTA ATTCCACCAC TAATTGTAAA TAACTTGGA AAGGATGTTG 60
 35 TTTGTnATTC CCATGGACAC ATGCCATCTn ATTTAAGTTT TATACTCTAT TTTCTGATG 120
 TCTTGATTAA TTGCAAGCGG TCTTGGGAGC CTGTGTCAG CTCATATTCT TTATCTACTT 180
 GCTTACCGTT TCTryTTATT AATCTTACGG TTGCGGTAAT CTATCACCA TGTTTTTCAG 240
 40 CATCTATAAT TTGTGGTGAA CTAATCATCA TTAACCTTCC TTTAGATACA CGCTCTTTA 300
 CATCATATA AAAAGATGAT CCTTTTTTTA TATATGATGA TACAAAATCA AAATCCGACT 360
 45 GATTAAACGC AGCATTTATTC GCTAAAGAAT ATCCAGCAAA GAATTCATAT AATTGTGTTCT 420
 TCAAGCTGTT TTCTTCTTTT TCTTCTTTT CAACATAGTC TTCGATATCT TCACGTGCAA 480
 AATTCAAAGT TATCTCTGTA TTGATTTTAA AATCGCTAAG CTTTAATCGT CTTCTGCTGT 540
 50 GATGTA 546

(2) INFORMATION FOR SEQ ID NO: 879:

(i) SEQUENCE CHARACTERISTICS:
 55 (A) LENGTH: 870 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 879:

	TTTTATGAATT TTTTATGTAA CATTAAATAT TCTTCTGGCA ATCTTCCTAC TATKCTCTT	60
10	ATATATCCTT CTTCCTCTC TTTAAATACT AAACCTGTGG GAGTtagTGT GTTATACCTA	120
	ATTTCTATCT CATTCAAATG ATCATTCAAA AGGTCAAAAA ATTCTCTATT AAAATAACCC	180
	CATTTCCCAT TTTGTAATAA ATATTCTTTT CCATCTTCCA TTTCACCTTC TGCATGTAGT	240
15	ATCGTTTTTA GTAGCATATT ATTTGAATGC CCCAAATTAT CkATCACKTc AATTCTGACA	300
	TCATTTATAG AATTAAACGTC ATATTTTAAT AAGTAATCTC CTATTTTCAGT GATGTAATCA	360
	ACTTCAGGAT CAGTCGCATC AAATGTCTCT AATGTATTAT TTTTAAAGA ATTTATATAT	420
20	ATATTGACGT CGAGCATATC ATCTAACAAG AGTATCATAT TACTTAGTTC TAAAAATCTT	480
	GATATATCTA TAGATATATT TTCTGTAGTT GAAGAATTGC ATAGTTTTTT TAGCAATAAA	540
	GTATCTAATA CTTCATTTTT ATTCAGTCTT TTTAAAGTTA CTATTCTAGG AAATTCACCTA	600
25	ATTTTTTGAG GAAGATTAAT AATAGCGTTT ATTTCTTTGA TTATCACACT AATTATATCT	660
	ATGaATTGCT GcTTTCTATT CGGtACACGC AATGaATAC TTGTACCACA AGTCCATTGt	720
30	TTTTCCaAAA AATTGAGGaT TCTGTGGaTG tCCTTGaCT GGaTATATAA GATTCTGAAG	780
	GTCTAACGTA ATCTACACTA TTCCTTCTAT AATTAACAAT CTCTTTAAGC CTGTTTGTGT	840
	GAAAAAAATT AACATTTTTA nTAACTAnGG	870

35 (2) INFORMATION FOR SEQ ID NO: 880:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 400 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 880:

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	GGTTTACATC TTTATCAACT GTAAATTCAT TGACATCTTC ATTCATATTT AAAACACCAT	60
	TAAATGTCCT TGAATATTCA CTGTGTTGTT TAACTGTGGC AGTGACTTGT CGTTACCATA	120
50	TGTCATCATA TATTGTGCAA ATGTTAAAGT CCCCATGTAG TTGACCGACA AAGTTGAATT	180
	TATCGAATTG TATTCAGATT GTAAACTTAG CAGACATTTT TAACCACGAG CATTCTTATC	240
	CAAAATAGnCC TTGTCTGTGA TTTTCAAGTC AATTTTCACA ATAGATACAC TGCATCTTTT	300

55

ACCTCTTTT TCTGCTnCTC ACATAACTTT CAGATGGACT

400

(2) INFORMATION FOR SEQ ID NO: 881:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 333 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 881:

AAGATATTGC	GAAAAGAAGT	GACAGTAACA	GAGGAATTTT	AAAATTTATT	CAACCATATA	60
TTGAAAATTG	ATGAAATGGT	GCATGCAAAAT	GAAGCGCGTA	TTGCGTATGA	AGCAGACATG	120
CGAAAACCTT	TATATAGTAA	ACGCATTAT	CAAAATTTAA	CATTAGACTC	TATTGTTTTT	180
AGAAATACAT	TGAGATATAC	AGCGATTATG	ATGATAGCGG	ATATTATTG	CGTTAATGTT	240
TGATTTTGAA	AAAGCATCTT	GGATCCCGTT	ATCTGCACAT	CCATATTTC	TAGGGCCATC	300
AACTTATACC	ATGCCATCCG	AGAGAGGTAT	Ggn			333

(2) INFORMATION FOR SEQ ID NO: 882:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 617 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 882:

ATTGAAGAA	AAACTGACGT	ACTTATCCGA	TGATAAAATG	AAAGAAGTAG	ATAATGCACT	60
AATGATTAGT	TTAGGGCTGA	ATGCAGTAGC	TCACCAGAAA	AATTAGGCGT	CTATTATATG	120
TATTTTTCAG	AGATAAATAA	AATATTGATA	TAAAAGACAA	TAACTTTATA	ATAATTATAA	180
CTATTTCTAA	ATTCTGTACG	AAGAATTTTC	TTATAAACAA	AGATTTTAGC	AAATACCAGT	240
TATGATATTC	ATATTTTTTA	TTATAAAAGG	ATGCTTAAG	TTTTTTAGGC	TTTAGGTATT	300
CCATCCTAAA	GTTTTTTTAG	CTTAAAAGTA	TCATCTACAG	CAAAATTGCA	AACGACAAAA	360
TTGATAAGTG	CAATTAAATA	AATGTTAGTA	AGTGAATCAT	AATTATCCTT	GCTTAAGCAT	420
TTGCTTTGTA	AGGGAAGTGA	GGAGGCAACT	AATCGTGGAA	GAATTTAAGC	AACATTATAA	480
GGGTTTAATT	GATGAAAGTT	TAACGTGCCA	AGATAAAGTA	GAATTGATAA	AAAAGTGTGA	540
GAAATACACT	GACGAAGTGA	TTGTAAGGA	CGTCTGCCT	GAAGACATTG	TCGATATCA	600

(2) INFORMATION FOR SEQ ID NO: 883:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 583 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 883:

GTGTATTAA	AATTTTCAA	TTTAACAACG	AAACAATACG	AAGAAAAACA	TATTACTGAG	60
CCACTGGAAT	TGACGAGCTT	ATTAGGTANT	ATTTCTCGTC	TAGACAAATG	TCATTTTGCA	120
CATTGCGATG	CTACTTTCGG	TACTCAATCA	TATGAAACTT	TTAGCGGACA	TCTCGTAAA	180
GCAATTGTTT	CTGCAACTGC	TGAAATCATT	CTTACTGTAA	CTGATTTGGA	CATTCAACGT	240
TCATTCAAAG	ATCGAGTCGG	TTTAAATTTA	CTTGATCCTC	AATAGCACTT	TACTTTTATG	300
TTGAATCAAA	TITTATTACA	AGTTATCATA	AGTGCTTAAT	CATAAATGCA	TTCTCGTTTA	360
TTAATATACT	TCAACGAGTT	AAATTAATTT	TTTAATTAGG	AATTGAATGC	GTTTATAACT	420
ATCACATTGG	AATGAATAAC	TTTTTCATTA	GAAAGTAGTG	TKTATTATTG	aTGCAATCTC	480
GaTACATCGC	TAGAATTIAC	TTTtaATTTT	ATTTATCGTC	TCCCTTnTTG	AGACTAAAAT	540
TTTTCAATTT	ATGACTTTAA	ATTTGTTTTT	AGCATATATA	CCT		583

(2) INFORMATION FOR SEQ ID NO: 884:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 524 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 884:

GCAGAGGGCT	TACGATAAAA	AGAAAAATCT	CGCTCGCCCG	CTTCAGTCAA	ACTCACAAAA	60
GcTAACGCAT	GwyTGCTyCA	TTGCTGCGAT	ACACTTTTGA	TACATCTACA	CCAATACTTG	120
ATATCGTTTC	AATAATGCTA	TCTCCAAATG	CATCATTACC	TAATTGTGTA	ATCATATACG	180
CTTGTTGTCC	LAACTTTGA	ACTGTACAAG	CTACATTGCA	TGGCGCGCCA	CCAATTGCT	240
TGCTAAATGT	TTGAACATCT	TTTAAATTGC	CATTTGTAAAC	ATTTGGAATA	AAATCAATTA	300
ACGCTTCTCC	TATTGAAAAA	AGACGTCTCA	TTTATGTTCA	TCCTTTAAAT	CATATTAGT	360
AAATTGTAAA	TATACTTGCC	CTGATTCGTG	TGATGTTTTA	ATACCTAGTG	CGTCTCTGT	420

TGTATCAACA AAAATTGTGA ATTGCTTTAA TGGCGTGTCT AATA

524

(2) INFORMATION FOR SEQ ID NO: 885:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 885:

TTAATGATT	CTTCGTATGA	TTCACCAACA	ATTTCGCCTA	AAATATCATG	CGCAAGTACT	60
TCACCTTCAA	CCATAAATTC	TATTTGCTCT	ACTAAAAAAT	TTACGTCATT	CATGCTATTC	120
ATTTTGTGAA	TTAACAAAGC	ATATAAGTTT	GTAATTCCTT	TTAAATACGC	AGCATCAGCT	180
TTTAAGTAAT	GGCGTAATGC	GTCACCTCTA	TATCTCCGGA	TAACATCTTC	TGAATAAAGT	240
CATCCTCATA	AAATATCATAA	TGATGGCTTG	CAGCTGGGTA	CAATTTTGTG	AAATCCATG	300
TAAAAATCCT	CCCTAAATAA	AAAACACTCT	CCAACATGAA	GAGTTGAGGC	ATGTGCAAAC	360
TAGCCCATCA	CTCATAACAC	TTCCACGTGG	GACTIONAAC			400

(2) INFORMATION FOR SEQ ID NO: 886:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 857 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 886:

AAGAATTAA	ACAAAATGAT	ATTTCGAAAC	ATTTTAAAGC	TGTGAAAAAT	AATCATGTTT	60
ATGACTTAGA	GGAAGTGCCA	TTCGGTATTA	CAGCAATATG	TGATGCTGAT	AAGGCAATGA	120
CTCAATTATA	TGATTTATTT	TATAAGGATA	AAAAATAGTG	AGTTGATATG	ATGATAAAAA	180
ATAAAAAGAA	ACTACTATTT	TTATGTTTGT	TAGTCATTTT	AATCGCAACT	GCTTATATTT	240
CGTTTGTAA	CGGTACAATT	AAATGTCAT	TTAATGACCT	ATTTACAAAA	TTTACAACCTG	300
GTAGCAATGA	AGCACTGGAT	TCAATCATTG	ATTTGCGATT	GCCACGTATA	TTAATTGCAT	360
TGATGGTTGG	CGCAATGTGA	GCACTTCTG	GAGCATTAT	ACAAGCAGCA	CTACAAAAATC	420
CTTTGCGAGG	GCGAATATCA	TTGGCGTTTC	CTCAGGTGCA	CTTATAATGA	GAGCCTTTGT	480
ATGTTGTTTA	TTCCACAATT	GTACTTTTAC	TTACCATTAT	TAAGTTTTAT	TGGAGGTTTA	540

ATATTAGTAG GTGTTGGGTT ATTCGTATTA TTAAATGGTG TTTTAGAAAT TTAACTCAA 660
 AACCCCTTAA TGAAAATTCC TCAAGGCTTA ACAATGAAA TATGGAGCGA CGTATACATA 720
 5 TTAGCAGTAT CAGCATTATT GGGATTAATA TTAACATTAC TATTGTCCCC TAAATTGAAT 780
 TTACTAAATT TAGACGACAT ACAAGCGCGA AaATCGTTT TAATATTGAT CGTTACAGAT 840
 GGTTAACAGG GTTATTA 857

(2) INFORMATION FOR SEQ ID NO: 887:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 675 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 887:

GATTATTTTT AATATTATTG TTAGAAGGAA TTTTACAAA TTCAGCGAGT GCAATCGAAT 60
 ATTCAGACTT ACATCATAAA AGTAAGTTTG ATTCAAAGCG TCTAAGTAAT GCTAAGATGT 120
 25 CATTATCAAA TCCAACCTAG CTGAAAATA AAAACACAAA CGATAGACTG TTGAAGCATG 180
 ATTGTTATT TCATGACATG TTCGTAAATG ATGATTGGAA AAAGGATTTT AAAGTTGAAT 240
 TTGAAATGA GGCACCTTCA AAGAAATTTA TAAATAAGGA TATCGATATA TTGCTGGAA 300
 30 ATTATGGATA CGGATGTCAT GGGGGAGCAA CCAATAAAAC GCAATGTAGT TATGGTGGTG 360
 TTACTTTAAG TGACAATAAT AAATACGATG ATTATAAGAA TATACCTTGT AATTATGGGA 420
 35 TTGACGGACA TCAACAGAA ATAGAACTAA CTGCAGTAAA AACGAAAAAG AAAATTGTTA 480
 CTATTCAAGA ATTAGAGGTT CAATTAAGAA ATTATTGAA TGAGAAGTAT AAGTTGTACG 540
 AACAAAGGTGG CGACATTGTT AAAGGGTATG TTAATATTA TAATGATGAT GAACAAAATG 600
 40 TAGAATATGA TTTTATAAT TTAATGGTG AGTATGGTGC TGAGGTATTA AAAATGTATG 660
 CnGATAATnA AACnA 675

(2) INFORMATION FOR SEQ ID NO: 888:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 851 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 888:

AATTCCTAAT TAACAATGCC TTCAITTTAA AACCTTCTTC CATCAATTTG ATGTTTTCAT 120
 GATATTTAGG ITTTCICITT TCAAGATAAA CCATTAAGTY CTCAATAGAA GGTGTAGTGA 180
 5 TATTCACTTT AKGACCTAAA ATTTCTTTAA ATACTTGC GC ATGTTCTGTT AATCCTATAA 240
 ATCCCGTACG CTTATGTTCT TCATAAATAA GTAGAGATGC TAATTCATCA TCAAGGTCCT 300
 CAATAGCACC ACTCACAAC TGATATCTTT GTAACAGTTG TTCTTTTGAA CCATTTAAGA 360
 10 TAACCTCACC GTCACCTAAG TGAATGATAT AATCAGCTAT TTTTCTTAAA TCTGAGATAA 420
 TGTGTGTCGA CATGAATAT GTTTTATTTT CATCAITAA TTCTTGCTGA ATTATCTCCA 480
 15 ATAGCTCATT TCTAGCTAAG GGATCGAGAC CTGAAGTAGS CTCATCAAAA ATATACAATT 540
 CAGCATGATG TGAAAATGCA ACTGCTAGTG ATAATTTT CAT TTTCATCCCA GTCGAAAATG 600
 TTTTATATGA TTTATGATT GGTAAATCGA ACTTTTCAAG ATAAAAATTCA AATACTTGAT 660
 20 GGTCCCATTT ACGATAAAAA GGGGcAATCA TTTTTCaAG TTGCTTCGTA GTCATCTCT 720
 CATTAATAA ATTTTCAGAG TAAACnAACC CAATCTTATT CTTTAACTCT ATCGGATTGA 780
 GAGCCATATC CTCTCTTAAT ACTCTAATAA CACCAGTTTG TGGGTGATAC AAATCCATAA 840
 25 TTAACCTAAT n 851

(2) INFORMATION FOR SEQ ID NO: 889:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 362 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 889:

AATCACCTTC ACGCCAATAT TGATTTTCAT GCGTAAATAC TTGTGCCGTT TCATGATACT 60
 40 TTGTCAATCG TGC GTGTTGC TGGGGGGAAT ATTTTTCAGT AGCCCAATTG GCTGCATGAC 120
 CTTCAATGGC TAGTTCAATT GCAGGATTAA TTAAATCTTC CAATGACAA TTAGCATAAC 180
 GCTTGTGAAT ATAATCAAAC AGCTTTGGAA TTGCTGGCAC ACGACAGTTT TACCATGTGT 240
 45 AGTCATATCA AAAAATGATT TATATTCGCC TGAATCAnCT AGATAAAATT GGTGGGTAC 300
 ATGGTCAGGG TGCTGGCTCA CGGTGCATCA AACGChGnTA ATACTGCCCA GTACCTTTTG 360
 50 TC 362

(2) INFORMATION FOR SEQ ID NO: 890:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 747 base pairs

55

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 890:

	TTGGTTTATT CCCAAAAAGT ACGCGAAAAAT TAGTAGAGAA GAATTTGAAA GTTTAAATAT	60
10	TGTCAAACCC GCTAAAAATA ATACTTTCTG GCCTGTGTGA GGATTGCGAG TGTATTAAAC	120
	AACCTTAACA AGAAAAATATA TCTATTGCT TAACATCCAT TTAGAAAAAG AAATAGTTAT	180
	ATTAACATGC TGTATGATAC TTCTAGGTGT TTTCGCATTG TTTATATATA TAAATACAAA	240
15	ATTGAAGTTA CATATTTTGT ATAAAAATAA AAGTAATAAC GAAAGATCA TATTAAATACC	300
	TACATTTAAA AATATTTGTT TATCCTTATT TGCTTATATA TTATTGGTG GATTGTCAAC	360
	AATGGCTCTG AGTATGTTAG TAACCTCATC CCTCAGAAAT ATAATAGAT TTCTTGCTTT	420
20	AATTGGCATG ACTGCATGCT TCTTTCTACT GAATATGTCA TCGGTTCTAG ATAAAAAAAT	480
	TCATGTTATT TAAAAACAA ATAAGTAGTA AAATTGATTA ACTTAGGTAG TATCGGATAC	540
25	TTAAATGTTG GTTCATAAAA AGCAATGATT TAAATCGAG GAGCTATCTT AGAAGAGGA	600
	AATAAACACG CCAAAGTTAT AAAAAGTGAA TTAATAACTA ATTATATTAT GTTAGCCACG	660
	CTTCAATAAA AATATAATTA GAATAAGGTG GGATTGATAA TCAAGCTAN GCGAATCTAA	720
30	AATCATCAAT AAAAACCCCA AATATAG	747

(2) INFORMATION FOR SEQ ID NO: 891:

(i) SEQUENCE CHARACTERISTICS:

35

(A) LENGTH: 526 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 891:

	ATTTTGAAAT TTTAGCAGAT ACTGATAATG GTCTCGATGC AATGAACTT ATTGAAGAAT	60
45	ATAATCCTAA CGTTGTTATT TTAGATATAG AAATGCCAGG CATGACTGGA CTGGAAGTTT	120
	TAGCGGAAAT TAGAAAAAAG CATTTGAAATA TAAAGTGAT TATTGTAACA ACTTTAAAA	180
	GACCGGATA CTTTGAAAAA GCAGTTGTGA ATGATGTGA TGACATGTT TAAAGAAGAC	240
50	GTCTATAGA AGAATTGGTG GAAACCATTA ATAAAGTAAA TAACGGAGAG AAAGAATATA	300
	GCGCCACATT GATGACTTCA TTTTTGTAG ATAAAAACCC ATTAACGCCC AAAGAACAAA	360
	TTGTATTAAG GGAATTTGGC AaTGGTTTAA GTAGTAAAGA AATAAGTGAA AAATTATTTT	420

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ATCGTTTTGA TGCTGGGAA AAGGCAAATG AAAAAAGGCTG GACCTA

526

(2) INFORMATION FOR SEQ ID NO: 892:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 751 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 892:

15	TATTGTATGT AAAAGCGAaA GAACCATACA ATGTAACAT TACTAGTGAT AAATACATCC	60
	CTAATACCTGA TTGAAACGT GGGCAAGCTG ATTTATTGT AGCGGAAGGT TCTATCAAAG	120
	ATTTAGTGAA ACATAAGAAG CATGGTAAGG CAATTATAGG AACGAAAAA CATCATGTTA	180
20	ATATTAAGTT ACGTAAAGAT ATTAATAAAA TCTATTTTAT GACAGATGTT GATTTAGGTG	240
	GACCAACGTT TGTCTTAAAT GACAAGACT ATCAAGAAAT AAGAAAGTAT ACAAGGCAA	300
	AGCATATCGT CTCTCAATT GGAITCGATT TGAACATAA AAAAGATGCT TTAGCATTAG	360
25	AAAAAGCGAA AAATAAAGTT GATAAATCTA TTGAAACAAG AAGTGAAGCG ATAAGCTCAA	420
	TATCAAGTTT AACCGGAATA TTATTATTIG TAACATCATT TTTAGGTATT ACATCTTGA	480
	TTGCTGTATG TTGCATTATA TACATAAAGC AAATAGATGA AACCGAAGAT GAGTTAGAGA	540
30	ATTATAGTAT TTGAGAAAG CTTGGATTTA CACAAAAAGA TATGGCAAGG GGACTAAAGT	600
	TTAAAAATTAT GTTTAAITTT GGGTTACCTT TAGTTATTGC ACTATCACAT GCATATTTTA	660
35	CATCATTAGC ATATATGAAA TTAATGGGTA CAACGAATCA AATACCGGTT TTCATAGTAA	720
	TGGGATTATA CATTGTGATG TATGCTGTTT T	751

(2) INFORMATION FOR SEQ ID NO: 893:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 357 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 893:

50	GGATGTTGTA CATTATTCAG ATTACTTTGA AGGGGCACAA AAATATTGTA GCTATTTAAA	60
	ATCAACAGTA GATGTTAACT TTGAAGGTTT GAAAATTGCT TTAGATGGTG CAAATGGTTC	120
	AACATCATCA CTAGCGCCAT TCTTATTGG TGACTTAGAA GCAGATACTG AAACAATTGG	180

5 TAGCTGAAAA AGTAGTTGAA ACTGAAATGA TTTTGGGGTT AGCATTTGGA CGGCGATGGG 300
 AGACAGAnCC ATAGCAGTAA GATGGAGAnG GnCCAAATCCG TTGACGGTGG ACCCAAT 357

(2) INFORMATION FOR SEQ ID NO: 894:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 464 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 894:

15 GCTAACCTGC AAAATTCGAT AAGCGATTCA ATaCTGAcGC CTGcATTTCG CAAATTTTTC 60
 ACTAAATAAA TCCAATTAA ATCACTATCA TTATATATTC TATATCCATT TTCATCTCGA 120
 20 TTAACCTGGT GAATCACACC AACCTTTTCA TAATATCTTA AAGTGCTCTG AGATATATTC 180
 ATGAGCGCTA CGACTTCTTT AGTTTTCATT GCGACTATCC TTTCAGTTAT GTTTGGTTCG 240
 CTAAGTAAT GTTGCTTTAT ATATTGTCAT CTCGTTTGA ATACTCTTA TTTTATTACT 300
 25 CAAATTTAAA TTTGCTCTT TTTTAACATT TTACATTCA TCGTTTTTAA TTACTTTAAA 360
 AATTGTATAA CTKAAATATT TAAATGATA TAAwCACTAA GATTGaTAAT AtTTAATTnT 420
 TTGAAAAATT ATnTTAAGTT GCCAATTTTG GGGGGATGCG GAAA 464

(2) INFORMATION FOR SEQ ID NO: 895:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 599 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 895:

40 AnAAATGAAAG AGTTACAGGA CTTTATTGCT CGTTTCTCAG TAACGCTTCT AAATCTAAAC 60
 AAGCAACAAG TCGTAAAAAA CAACTCGAGA AAATTGAATT AGATGATATT CAACCATCAT 120
 45 CAAGAAGATA TCCTTTCGTT AAATTCACAC CTGAGCGCGA AATCGGTAAT GACTTACTAA 180
 TCGTTCAAAa TCTATCTAAA aCGATTGACG GTGAAAAAGT ATTAGATAAT ATTTCAATTCA 240
 CAATGAATCC AAATGATAAA GCAATTTTAA TTGGGGATAG TGAAATTGCG AAAACCACAT 300
 50 TCGTTAAAT ATTAGCCGGT GAAATGGAAC CAGACGAAGG TTCATATAAA TGGGGTGTA 360
 CAACGTCATT AAGTTACTTC CCTAAAGATA ACTCAGAATT CTTTGAGGGC GTTAATATGA 420

GCGGCTTCTT AGGCGGTATG CTATTTAGTG GAGAAGAAGT TAAGAAAAAA GCTAGTGTAC 540
 TTTCAGGTGG AGAAAAAGTA CGTTGTATGC TAAGTAAAT GATGTTATCA AGTGCAAAAC 599

(2) INFORMATION FOR SEQ ID NO: 896:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1057 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 896:

TCATTAGTAG AAATCGTTAA AGATGCATCT TGCAATTITAA AATCCGAATC TTTGTATTGT 60
 TTGTTACAC TATCTACGTT TAACAATGTT GTCATATCCA TGCTCCTCTT TGTTTAAATT 120
 TAATAAAAAA GTCTTCTCTT CAATAAATAA CTAAAGGCGT TATATATGAA AATAGCAATG 180
 ATAAGTAGCA AACTAAGGCT TTGATTAAAT CCAGTAGTAA TTGAATAAAG CCCAATTACT 240
 ACAATGGCTA GTATCAATAT TGATAAGTTG ATCGCATATG TTTTAAATAA TGCAATTAAAT 300
 TCTATATGGC GTTCACCTTC ATCCAATATT TCCAATCGCT TTTCAAGTGA ATTCTTATCT 360
 GCAATTTTGT GTATTCTGTC ATCAAACCTT CTATTAAACA GTGTAAATTG TGTATTGAAA 420
 ATAGCACTAG CAAAAAATGG TATTAATAAG AATAGTATTG CATTTGTGTC AGCGTGCCCT 480
 ACCACAAAAA TAAGCAATAC TAAAAAAGCA ATAACGTCTC GCAGAATACT TAATATACTT 540
 CCATTTAAAA CATAACGATT CGCAAGCAAC TCATATTGAT CTGTGTCATC GATATCTACC 600
 TCTTTATCTA CAAGTTGCTT ATACTTCAAT GCACGTCTTT GATTCAATCA AACAAATGGCT 660
 TCTACCAATA TGATAATAAT CGTCGCAACA ATCGATATTA CAACGACATT GTTATATGTC 720
 GCAAAACGTCA AGTTCTCAAT ACCAAATCCA TCAAAATTAC CTAAATTC CACTATGATA 780
 CCCCTACAAA GTCCACCCAG TAAAGATATAT CCGATATATC TTAGTATTTT CATGCCCTCAT 840
 CCTCTCAAT AATAAAAAA GTTCCACCG TTTCAITGAA AATGCGGCA ATTTTATTGG 900
 CCGTTAATAC TGATGGCATA AAATTGTTTC GCTCAATTAG CGATATGGTT TGTCTTGAAA 960
 GCGCCGCTTG TTAGCAAGT TGCCTTGGT TTAAGCCATC TGTGCTCGT AATTCTTTCA 1020
 ATCGATTACG CACATCGCAT CAACTCCnTA ATTACAC 1057

(2) INFORMATION FOR SEQ ID NO: 897:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 336 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 897:

5 AAATTATTGA GTTAACAAAT CATTACGGAG CACATAATTA TTTACCATG nCAATTGTCA 60
 TTTCAGAAGC CGAnGGGGTA TGGGTTAAAG ATCCTGAAGG CAATAAATAT ATGGATATGT 120
 GAnCTGCATA TTCGCTGTT AACCAAGGTC ATAGACATCC GAAAGGTATT CAAGCATTAA 180
 10 AAGATCAAGC TGATAAAGTG ACTTTACTCT CACGTGCTTT TCATAGTGAT AACTTAGGTG 240
 AATGGTACGA AAAAATTGT AACTGGCAG GTAAAGATAA AGCTTTACCA ATGTAATACA 300
 GGTGCTGTAA GCAGTAGAAA CAGCTTTGAA AGCAGC 336

(2) INFORMATION FOR SEQ ID NO: 898:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 302 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 898:

25 TgTgTtTTC TtATTGTTGA CCAATTATTT TGCATACCAA ATCCAAATCA TGTATTTATC 60
 AATCACATCC TAATGCTAAA TCCAAATGTAT TACATTGTTT AATGGTATAG CACAATCTAT 120
 30 CATATTIGGT ATATCAAGTA TGGAAAACAT TCCATATCAT TTTTACTTTA TTTTATTCTT 180
 ATGTTTAATA GCTGCGATTA ATTTGCTATT AGCAGGTATA CGACACACCG CAATTATATA 240
 TAAACATCTT AAAGTGACAC AAAGTGATAA TCAACAGGGA GTTTCAAAGA TAGTCAGACG 300
 35 GG 302

(2) INFORMATION FOR SEQ ID NO: 899:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 469 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 899:

45 CCCTAGCTG ATACAGTAGG TATACCAAGA TTGTCATCG TTACGACATA TCAATTGGT 60
 50 CAATATGCGA TGTTATTCTT AGCGCCGACT GGACTTGTTA TGGCCACACT ACAATGTTA 120
 AACATGCGAT ATTACATTG GTTCCGATTT GTATGGCCGG TAGTGTCTTT TGTATTGATT 180

TATAAAAAAT ACTAATGGGG TTTTATGCAT CTCGTAGGTT TGTAGAAATA CTAACCTAAG 300
 CGAGGTGCAT TATTATTTT GATTAAGAAA ATAATGACGG TAATGATAAC ACTAGTAAGT 360
 5 AATTGATACA ATGCTCTATT TAATAATGAT ATTTTTAAAA TTGTTTTTAA ATGTAATGTT 420
 AGATCTATGG TATATTATAT TTAACGTGGT AAATATGTAT TTGCTGTAA 469

(2) INFORMATION FOR SEQ ID NO: 900:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 821 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 900:

20 CTTTATGGT AACTCTCTAT aATATtTaa CAITTTTACG CTATCGTGCA AACGCAACCa 600
 CTTTGAATTy TCTGATATTT TTAGCATATA ATTTACACCC TGCACGATGA ATTGTAAATC 120
 CAGTTGTATA AATATCGTCA ACGAGTAATA TTTCTTACC ATTTAAATCT AATTCCGTAT 180
 25 CAATAATAAA TGGATTITCA TCTGCCAGAC GCTCTTTCTT AGTTAAATGA GACTGTTTTG 240
 GTCTATTGTA CATCTTTAAA ATCTTATCaA AGCGAATCCC TTTAGCTTTT AGTACTGCTT 300
 CTACCGGGTT AAATGTTCTA GATAAATCAT GTCCGCGCGA AGAAGGAATT GGCACAATAT 360
 30 AGTCATAAGA TGTTTGTGGT ATTTCAATCA AATGTGCCAA TAAITCACAT AAATAATAGT 420
 CTTTCAAAAA TTTTACTGTA TGTATCATCT CTTTCATTAA ACCGTCATAT TGAATTTGAC 480
 AATATAATTG TTCCATTAAA TTAAAGTGTG CCGATAGAAA CTTCAGTCT AAACAATACG 540
 35 CTTTCATCTG ATTTAAGTGT TTTAAGCACC TTGAACATCG CTTGCTTTTA ATATCAAGTT 600
 TAATATTGTC CCAATCTCTT TTGCATCTGT CACATAATCT ATTAGGTTTC TTGAACAAAT 660
 40 TATAAATGGT TATATTTTCA TATAACTTAG CACCACAACCT CAAACAATTA TTCATCAATC 720
 CAACCTCTTT TTAATGCTAA TTGTTCATC CTTTGAATCT CTTTTTTAGC TTGAATCATA 780
 TTCATACTTA CCCCTTtCAT GAAAAAACAA TACTTTTTCC A 821

45 (2) INFORMATION FOR SEQ ID NO: 901:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 349 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
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TGATGCTATT AAAAGTTAA TTGTCCGGTC TGTTTTGATA ATTTTAATAA TAACCTCAGG 60
 TAACTAAAAA TCCTAATATT GAAAAACAA AGCCATTAA AACATAACCT AGTATATTCC 120
 5 ATGTATGATT GTAACTCATT TGCCAGTTTt GTACTGACTT GCATAATTCT GTCACGThCG 180
 AACCATGTAC AAGCCTGCAA CTACTGCTGA ATGATTCCCTG ATGCGTGAAC AATTACAGCAA 240
 10 TTAATACGT AACAAATGGT GTTACAATTG AATAATTGAA ACATATTAAAT GTTTCATATC 300
 CTCGACGnCA TCAATGTTAA TCCGACCTT ACTAATGCAT ACCTATAAG 349

(2) INFORMATION FOR SEQ ID NO: 902:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 390 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 902:

CAAGTGGTAT AAATTTACCT GGTGAAATGT AGGTCGTGGT GCGATGATA CATTATTGCG 60
 25 TAAAATCGAC GCGTTTGTTA AATTGGAACG TAAAGTTCGC GACAAAAAAC AAGTTTCTGT 120
 ATATGCAGTT AGCTGAATAA TTTTGCTAG TTAACACCAG AAAGTGAATC TTCTGGTGTT 180
 TTTTACITTT TATAAAATGT TTTTCATTAT TATTTTCATT ATGnTATTTA AAAATGGGGA 240
 30 TTTTAGACGT TATACTAAAT GTGCACTGTA TAGGGGCCCT AATCACTAAC TATAGGGGGA 300
 CAAGGATACA GTGCAGCGTT AAGGATAACT GnCCACATTG GTCTGGGAAT ATAGGATTTA 360
 AGCAAGGTTA TAAAGTACTC nTAGGCCCTA 390

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(2) INFORMATION FOR SEQ ID NO: 903:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 903:

GGAATAGACG TATATGCGCG TTGAATTAA TCCTAATAAG CTTTCGCATG ATGAAGTGCT 60
 TTGGTTAAAA CAAAATATCA TCAGTTATTT GGACGATGTT AGTTTACGA GATTAGATTT 120
 50 GGCTTTTGAT TTGAATTG ATTTAAATG ACTATTATGC ATTGTCAGAT AAGnCGGTAA 180
 AAGAACTAT ATTTTATGCG CGAATGTAAA ACCAGAACAA AATATTTTGG TGThCGAATA 240

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GATTACATT CTATGCGGTG GAATTGATTA AACG

334

(2) INFORMATION FOR SEQ ID NO: 904:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 904:

CAAGTTGGGG ACACTGTTTC AAATGAAACA ACAGTGTGTA TTTAGAGGC AATGAAACTA 60
 TTTAATGAAA TTCAAGCAGA AATTTCAGGT GAAATTGTTG AAATCTTAGT AGAAGACGGA 120
 CAAATGGTAG AGTATGGCCA ACCGTTATTT AAGGTGAAAT AATGAAAAAG GTTTAATTGC 180
 AAACCGCGGT GAATCGCAGT TAGGATTATT CGCGCTTGTC GTGATTTAGG CATCCAAACT 240
 GTTGCATCTT TCAGAGGGGA TAAAGATCGC TACATCTCAA ATGCTGATGA GGCATATnCG 300
 TGGGCCnCTT GTCTAAGGTC ATATTTAATA TCCG 334

(2) INFORMATION FOR SEQ ID NO: 905:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 905:

TTACCCCTGT AATTCTTaaC CGTCAATTGA CCTTTATGCA GATTTAATAT TCCTAAAAAG 60
 TATAACTCTT CTAATGATAA TTGACACATA TTTAAATAAC ACTTTAGATT CCGCAATAAT 120
 TCTTGTGACG ACAATAAATA CGATACATAG TCACAACATA AATCAAATGT ATATTGACCA 180
 AAATAACGTT CAATATAGTC ACTAAGCTCA TTATTCATAT ATTCTATTn ATCTATATGC 240
 ATTTTATTAA TCGAAATAGT CAATTTACGT TGATCCCTTT GATCTCTTCC TTTCATATAGC 300
 CATTGATGAT TGnTAAATA ACTTAACATT TGAAGAAGGG CCATCTTAGA TTGATTTCCT 360
 TTCATnTTA ATAAACTATC TATTGAAGCG CTATTGGAA 399

(2) INFORMATION FOR SEQ ID NO: 906:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1478 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 906:

	TACATTTTTC AATTTATGGC AAAATnCACa ATTTTCATCG AAATATTTTG TAnAnAAATCA	60
5	TTGCTAGGTG ATGAGTTATC TCGGTTAAIT ACAAACGAT ATCTAAGTTT AAATATTAGA	120
	TCATAAAAAA ACTATCTACT GAATATCCCT CCATAGCATC ATTTTCTAA GCAAAAGTTA	180
10	AACTTAGTTA GATAAAATGC AAATGAGATT ATTGTAGATA GTCTCTTTT AAATGTTTAA	240
	AATGATTAAAT GCCaTAAACA TAAATAATTC CaaAGAAATGC CGCGCCACTA AGCACTGTTA	300
	ATATAAGACT TAGTAACAAT GTGCGTTTAT AATGTTTAc AAATGCTATG AACAAAAATGA	360
15	CTACATTATA CGCAAGAAA AGTCCGAATA ATGTCATTGT TATTTTCAAA TCAGAATAGA	420
	AAATATTTAA TAGTAATACA ATGACTGCAT AAATTAAATA CGGAATAACT ATAAATTTCG	480
	GTTCAAATCT TAATGTTTCG AAaCGtTTAT CTTCGTTTGT CATGATATGC TCCTTTATGA	540
20	TTTAAAGTA AATAAGTTTA CGGAAtATCT TGTCGGAATA TAGCGGTGTA AAtGTCAAA	600
	CACGACTGAT CATcTAAAT AAGTGTAGC CctTCGATTG CTGTGCAAT ACGCTTTAAC	660
	TGACTTGTTc CAAGTATCCG GCATGATACG ATGCGGTATT TTTACTAAC ACGCTATCAT	720
25	CACAGCTGTG TCATyACAC mATAtTTGTC AGCTATTGAT TGAACAAC TTcATAATAG	780
	TTGCGCTTTA ATATCTTCCT TGTCGAAAAT TTTACCGCCT GCAAAAGGAC TCCAAAGCAT	840
	GATTGAACA TGGTTTGTAT ACATTGAATC CAITGTTCCA TCTTGTAAC TATCAACGTG	900
30	ATATGGCGAT AATTCTAAIT GATTGATGCT AATATGTAGT CTTTCTTCA TAATATATTG	960
	ATTTAAcAAT TGGTATTGTG AATGATTAAA ATTcGACACC CCGAATGACT TCAACTTACC	1020
35	TTGTTTAAcA AGTTTAGTTA ATGCATCAGC AACTTGTTCT GGAATCCATCA ATGTGaaAg	1080
	ACGATGAATG AGTAGACTAT CTAAATAATC TACATTCAAA TTGATTAAAT ACTGTTCAAC	1140
	AGATTTCAG ATGTGCTTAC TACTCAAAATc ATAACGATGT CCATTGTGTA AATCAAAATTG	1200
40	CTTAGAAGGC AAAATGATAC CACATTTCGT AACAAATTGA ATTTTATTTT TTAATTCGGG	1260
	TGATAAATCC AAAGCATTAC CAACAGTGA TTCACATTGA TAATCTCCAT AAATATCAGC	1320
	ATGATCCATC GTTGTAATTC CACGTTCaAC TAATTCATT TATAAAATAAT TTAACCTTT	1380
45	CGCAGTCATC TTCCATTcAT TTGACGCCA AAAACCTTGT ACAAGCCTAG AAAATGAAC	1440
	ATAGTGATTa ATCAATTATT GTTCCATATn TCATCCAC	1478

(2) INFORMATION FOR SEQ ID NO: 907:

(1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 543 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 907:

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TTCTATGAGA ATAGATATTG TTAAATTAAAG AAAGTAGTCA ATTTTATTAT GACAAAGAA	60
AGAAGAACAT TTAGTTCAGA GTTAAAGTTA CAAATGGTTA GATTATATAA AAATGGTAAG	120
CTTAAGAATG AaATTATACG AAAGTATGAT TTAAACCCT CAATTATCTC AAATTCGATA	180
AAACAACACC AAAATACTGG ACCCTTCAAT CATCAAGATA ATTTAAAAAG TGATGAAAAA	240
GAGTTAATAA AATTACGCAA AGAAGTTCAA CATTTAAAAA TGGAACATGA TGTTTAAAG	300
CAAAATTTAA AGTTGATTTA GAAACTGAAC TTTTAAAGA TACATTACTT GAAGATTCTA	360
ATTATCTGA TTATATAAAG AACCAACTTC CAACGATATG GAGAGACTAA GAAATAGTTT	420
AAATTIATTT AATTTCATA AAAACTCATA ATAATATTTA AGTAAGTTAG ATTGCTTTTA	480
GCATTAGGAA TTCGCTTATA ATTAGATGTT CAATATAGAC TTTTTCAC ATACATGAAC	540
TAT	543

(2) INFORMATION FOR SEQ ID NO: 908:

(1) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 751 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 908:

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TTThCGGThG AACATGATTh CGATATTACT TCTAAAAAGA TTCAACCAA ACCAGAGAA	60
AGTGTGGAC GTTGTAGTTAA TGTCGATTGT AAAGATACAG TACTGGAGTA TTCAGAATTA	120
GATCCAGAAG TTGCAATCA ATTTAACAAT GCTAATATCG GTATTCAATG ATTTAAACTT	180
GGTTTTATT TAAACGCTGT AAATCGTGAG TTACCTTATC ATTTAGCTAT TAAGAATTG	240
AAGCAATTAG ATGAGAACTT TGGTGTATT GAACAACCAA CTTTAAATTT CGAATTGTTC	300
TATTTTGACA TATTTACTTA TGGAACTAGT TTTGTACGT TACAAGTTCC TAGAGAAGAT	360
GAATTTTTCAC CTCCTTAAAAA TAAAGAAGGT AAAGATAGTG TTGCAACTGC AACAGAAGAT	420
TTACGTAGAA TGGGTTTAAT TTAATGATAG GCGGTGACTA TGATGTCCAA ATCAACTAAA	480
AAAAGTAATG ACACAATCGT AGAAACATTT AAGGATATCA TCCCTTTATC ATTTGGAGAA	540
GAAATTGGTA ATGCGGCATC TCATGGTGTT GCAGCTTTGT TAACATTATT AGTGTACCC	600

	TATGTTATT CTATCTTAT GATGTTTATT TCATCTACTA TTTATCATTC TATGCAAAAT	720
	GAACACCTC ATAAATATAT TTTAAGGATT A	751
5	(2) INFORMATION FOR SEQ ID NO: 909:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 394 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 909:	
	AAATTGTCAC AATTCAGTCT AATTAAAAAG GAAGTTAATT ACAAAATTAA AAAATCATGC	60
	ATCGTGTCAT TTAGATATTG AAAAAGATGA GTCAAATTGG TTTTCATATAT TTTCCAATAA	120
20	CAAAATTATTA TATCTAAATA TACAATCAGA AATATATGAA TAGAAATATC AATAAGAAAA	180
	ATAATATGAT TAAAAATGAT GAATGGCATA CTTATAAAGT GTCTAAATAT TGCGCGTCAA	240
	TATTACTTAC AAACACGAAT GTTAAGTAAT GTAGACAATG cTGaAAAAAC AATAAGTAGa	300
25	AACCTATAT AGAATGTTCC TTTTTATTTT TaATAATTGa ATAATCaTTA TTGGGTGGAT	360
	TTTAATATGG nATTCCGGTC GGCACACGGA TTAC	394
	(2) INFORMATION FOR SEQ ID NO: 910:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 1022 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 910:	
40	TAAAGCTAAG AAAAAAGAAA AACGTAAAGC TTATAACCAA CGAATGAAAG AACGTAGGAA	60
	AAATCAACCT AGCGCAGTTA GTCAACGTCG AATGAATTTT GAAGAGCGAC GTCAAATTTA	120
	CAACAATGAT ATTTCTGAAG AACGCAATTC AAGTGAAGTT AAGGACAAAA AAGAGCAAGA	180
45	ATAAATATTG ATGATACCCA GATTAGTAAG CAGAGGTCCT TTGCTTATTA ATCTGGGTTT	240
	TTATATGAGG TTAATTATCG ATAACGTTTA ATTAAGTGT TTAGGTGTCA TAAATTTAAA	300
	TGACGATTTC CCCATTACKA TACACCTAAA TtATCATCAA TCTGaATTCA GATGTTTATk	360
50	ATAAAAATTA GATGAAAAAT ATGTTAATAT ACAAGKaATT TAATGTGcGk ATATCTATAG	420
	GCTCGTAGTA TACTTATTAA AATATTAAAC AAAGAAAGGA TTTTAAGATG AATAGAAAAc	480
55		

GGCTATCCTA TTTTCTTTA AAAAGTGGTA ATGCATCACA ACGTGAAGAA TTAGCGAAGC 600
 AATTATCTCA GAACGGTGGC AAGGTTTCTT TAGATATGCT TCAGACAACA ATGGGTGCAT 660
 5 TAGCAATTAT TTTATTAATT TCAACACTTT ATGGTATATT TSCGACAATT TGTATTAAAG 720
 GACGTAGAAA ATTATCGATT ATACTTTTGG TTATCGCGAT AATTGTAAGT TTGATGGCTC 780
 10 TTAATTTAAT TGCAATTGTC TTATGGGTGA TCGTGATGAT TATGTTGATT TCTAAAAAAG 840
 AATCAAAAGA AACACACAT AAGGACGATG AGTATATTTA TCATTAAATAT GTTCATAGCA 900
 AAAGAAAAAC CATTAAAATG TTAAGTTGTT AATTATTAGA TACAACCAAC ATTTTAATGG 960
 15 TTTTATTTT AACTTTGTAG TTCTTGGAAT GTTTGAACGA TTAAATAGAC ATTTAAAATA 1020
 CT 1022

(2) INFORMATION FOR SEQ ID NO: 911:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 274 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 911:

GGTACTTTAT TTTTATTTT GGTCTTAGTG ATTITTACAT TATTTACATA TAAAGCGCCT 60
 30 AATGGTATGC GTGCCATGGG TAGCATTAGC TAATGCAGCA ATCGCAACAT TTTTAGTGGA 120
 AGCATTTAAT AAATATGTnG GTGGCGAGTA TTCGATATTA AATTTTLAGA AGAGCTAGGA 180
 35 GACGCTGCGG AGGTCTAGGT GGTGTCGCTG CCGCTGGATT AACAGCATTG GCTATCGGTG 240
 TGTCAACAGT ATATGCATTA GTTATAGCAG CCGC 274

(2) INFORMATION FOR SEQ ID NO: 912:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 679 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 912:

CITTAATTGT TCACCTTATC ATTATTATCA ATCAACTCTA TGATATGAAA TTGTTGTAGA 60
 50 GATAAATCTA GTTCCTCATT TTCCCTTTTA TACTGTCTTC TTTTATCGGC ATTTTCTCTT 120
 TCTATAATAA ATTGTTGTAA TTTTAAAATA ACTTCTCTCT TCATATCCAC TATTATTCTT 180

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TTGTGTAAAT TAACATATAT TTACTTAGTT ATGCACCAIT TATTCGCAT TTCACAAATC 300
CACCTATAAT ACAAACTATC ATTTTAAATA AGCAGAATTT ACCCTGTCTT CCACACAAAT 360
5 TGTTCGAC ACTTTAATGT GCCTACTATC CAAAAAGTT ACTCATAACA AATTGCGCAT 420
TTTAATAAAT GTAGCAATGC CATTGCGATG CTGCAAAAAT ACTCGTATTC ATATTTATGT 480
10 TTTATATAT TAAGTTTTT TAAATCCATA TTTTATAAC ACTTGCTATG TGATAAAAAT 540
AATTTATAT ATAAAATCTT AAGATTCAGA TTATTTAATA GCAAAGGAGA TAGTGATATG 600
GATGTTTTAA CAATAGAACA TTTAACAAAG AAGATAGGCA ACAAACGAT TCTCGAAGAT 660
15 GTATCATTTA AGCTGAAAC 679

(2) INFORMATION FOR SEQ ID NO: 913:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 564 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 913:

GCCATCCTTC AGTGCTAATT TTTTCAAATT CTAATGCAGA TGCACCACTA ACCATACCAT 60
30 ATATAAAGAA AAGACCACG AAGAAATAA GTAGTAGTAT AGATGCACAT ATCATAATGA 120
CATTOGAGTT TTCAGCGCCA AATTTAAATG TCAATGsGAA AATGATAGAG TATGCCCTTA 180
TGATACAAA ACTCAATTAA CCTGACATAA TACCAATCAT CACACTTTGG GTCACAATCG 240
35 TAGTCACAAC TAATCCAATC ATTAACAATTG CACCGAATAA GATTAAATAA AAGGCAAGT 300
ATGACTTAAT ATAATCACTA CGTTTAACCG GTAAAGTAGA TACATAATAC ATCCATCTTG 360
AGTCTTTTTT aTGTTAATA TTATCAGTAA TAGGTGTGAT TAACATAACC CCAGCCATG 420
40 CCGAATCAT CAACGGATTA AATACTGCAA AGTATCCTGC AGCTATAATA GCGACTATAA 480
AATAAATATA TGTTTGcTT CTCGTTGCAT AAAAATACT TAGGAACATA CCTTCATTA 540
45 TACTTCACCT CGCAATTAGA TTTT 564

(2) INFORMATION FOR SEQ ID NO: 914:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 643 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

AAAGAAGAAG CAAGTGC AAA TAATTTAAGT GATATATCAC AAGAGGCACA AGAGGTTCAA 60
 GAAGCTAAAA AAGAAGCACA AGCAGAGAAA GACAGTGACA CATTAACTAA AGATGCAAGT 120
 5 GCAGCAAAGG TAGAAGTATC AAAACCAGAG TCACAAGCTG AAAGATTAGC AAACGCTGCA 180
 AAACAGAAGC AAGCTAAATT AACACCAGGT TCAAAAGAGA GTCAATTAACT TGAAGCGTTA 240
 TTTGCAGAAA AACCAAGTGC TAAAAATGAC TTGAAAGAAA TTCCTCAATT AGTTACTAAA 300
 10 AAGAATGATG TATCAGAGAC AGAGACGGTT AATATAGATA ATAAAGACAC TGTAAACAA 360
 AAAGAGGCTA AATTGTGAAA TGGTGTATT ACACGTAAAG CTGATGAAAA AACAACTAAT 420
 15 AATACAGCTG TTGACAAGAA ATCAGGTAAA CAATCTAAAA AAACAACACC TTCAAATAAA 480
 CGAAATGCAT CAAAAGCATC TACAATAAAA ACTTCAGGTC AGAAAAAGCA ACATAATAAG 540
 AgATCATCAC mAGGTGcAAA GaAACAAAGT AGTTcmAGta AGTCaACTCA AAAGAATAAT 600
 20 CAAACTAGTA ATTAAGAnTT CAAAAACAAC AAATGCTAAn TCC 643

(2) INFORMATION FOR SEQ ID NO: 915:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 915:

AGGTTTAAAG GAAAAATCCT ACCTGGAGAG ATTCAAAAAC TAAATGGACT ATTTCAAAAA 60
 35 ATAAAGGCGA ATCAGATGGT GGTCTTATT GGAAGTTAAT AAATAACAAA GAAAAAGAA 120
 TAGCTCTTTT AACTAAAGAA GAAAAATCT TAAGGGAATA AGGTGTTGTA AATTATGTGC 180
 TTTGATATAA ATAATTGGA TATAAAAAAG TTGAATTTTA GAAAGGTAAA AAACGCAATT 240
 40 CATTTAAGTT TAAGTGGCGA TAAATACCAG TTTTGGAGG ACGGTAAAC TATCAATAAT 300
 ACTTATTTT TAGCTGTATA TGATAATGCA ATAAACATT TTGAAGATT GTTTCGCCT 360
 tCTGATTCTA TAAATTGGn TCATGTAGTA TATGTTTATA 400

(2) INFORMATION FOR SEQ ID NO: 916:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5 CCCAAAGTTC GATAGTGAT TAGTAITATC TTAATAAAAT GTTAGGTACA ATAAGATGA 60
 TTATATATCG GAGGTTAGTA TAAAAATGTA TGTAGATCGA AAACCATCAC TATATTTAGA 120
 GGATTTCGGA CATGATTTTA AAAATAGTTT AAGTAAATTT GAAAATGSGT ATGAAGCAIT 180
 TGATACGTTA TTAGGTTTCG TAGAGTTAGA TCATATTTAT TCGTCAGCAC TAAAGGAAAT 240
 10 AAGCACTAAA CTGAGTATTT TAGATGACAA TTTCAATCAC ATTTATAwAC ACAATCCTAT 300
 ACATCATATG GAGCGACGTG TGAAAGAAAT GCGTAGTTTA ATAGAAAAGC TTAATCGTAA 360
 AGGATTACAG ATTAGCGCAG AAACCTGCCAA AGAACATATA 400

15 (2) INFORMATION FOR SEQ ID NO: 917:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 20 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 917:

GAAAAATCTT ATGAAGATTG CATTAGGATG CGACCATATT GTTACAGATA CAAAAATGCG 60
 TGTATCTGAA TTTTAAAAAT CAAAAGGACA TGATGTCATT GACGTAGGAA CATACGATTT 120
 30 CACAAGAACA CATTATCCAA TTTTGGTAA AAAAGTTGCG GAACAAGTTG TTAGCGGTAA 180
 TGCAGACTTA GGTGTTTGTA TTTGTGGAAC AGGTGTTGGT ATTAACAATG CTGTAAATAA 240
 AGTACCGGCG TTCGTTTCAGC ACTAGTACGT GATATGACAT CAGCGTTATA CGTAAAGAG 300
 35 GAATTAAATG CGAACGTTAT TGGCTTCGGT GGACGTAITA TAGGTGAGTT ATTAATGTGC 360
 GATATTATCG ATGCCATTAT TAATGCTGGA TTATAAACC 400

40 (2) INFORMATION FOR SEQ ID NO: 918:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1220 base pairs
 (B) TYPE: nucleic acid
 45 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 918:

50 GTCTCCAGCC ATTWCAACCAC ACATACCTGT CCATTACCT TCITTTATGTG ACGCTTCAAT 60
 AACTTGTITA ACTAAACGTA AGATTGAAGG GTTATATGGT TGGTATAGAT ATGATACAG 120
 CTCTGACATA CGGTCCAGAG CTAATGTGTA TTGAATTAAA TCATTTGTAC CGATACTGAA 180

GATTCTCTAAT TCTATATCAT CGAAATGTC ATGACCTTCA TTTTAAAGGT TTTCTTTTTC 300
 TTCTAATAAT ATAGCTTTAG CTTCTCTAAA TTCGTTAATT GTTGCAACCA TTGGGAACAT 360
 5 GATATTTTAACT TTACCAATAA CTGATGCACG TAATAATGCA CGTAGCTGTG GTCTGAAAAAT 420
 ATCTTGTTCG GCAAGGCATA AACGAATCGC ACGGTAACCT AAGAATGGAT TCATTTCTTC 480
 10 AGGCAAGTTT AAGTATGATA ATTCTTTATC TCCACCTATA TCTAAAGTAC GTACAACAAC 540
 ACGTTTACCG CCCATTGCTT CTAATACTTC TTTATAAGCT TCAAATTGTT CTTCTTCTGT 600
 AGGCATTGCG TCACGACCCA TATATAAAAA CTCAGTTCTA TATAAGCCGA TACCTTGTGC 660
 15 ACCATTITCa ATAACACCTG GCAAATCATT AGGTGTACCA ATATTTCAG CAAGCTCTGC 720
 GTGAACACCA TCAACTGTAA CAGTATCAGC ATCAGTAGW TTTTGTAAAT CTTCTTGTG 780
 AGCAAAATAA CGCTCACGTT TATCTTGATA AGCGATTAACT TCATCTTCAG TTGATTAACT 840
 20 GATTACATCA CCATTTAATC CATCTACGAT AATCATGTGC CTTGTGTTAA CTTCTTGAGT 900
 AATTGATTTT GTACCAACAA TTGCTGGaAT TTCTAAAGAA CGACTCATAA TTGAGAGTG 960
 aCTGTGTTCTT CGCGCAATGT TTGTAGCAAA ACCTTGTCAG AATCTTTTAT TTAATTGAGC 1020
 25 AGTATCAGAT GCGGTTAAGT CATTCCCTAC AATAACAACG CTTTCATCAA TCATCTCGG 1080
 ATTGCGTAAT TCTACACCTA AAATATGTGA TAACACAGT TTAGAAACGT CGCGAATATC 1140
 30 AGCGCACGT TCTTTCATGT ATTGTTATC CATAGATTCA AAAATTGTAA CAAATTGTGT 1200
 TGTACATCC GCTTAATGTG 1220

(2) INFORMATION FOR SEQ ID NO: 919:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 315 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 919:

45 TTAGATTGAC TGCNAATGCC GACTCAAAAG AACAGCACA ATCATTGATT CAACCTGTTA 60
 AACCAAGAAAT TCTTGATCGT ATTGAGAAT ATTATTATG TTGAGATGAC ACATTAATTG 120
 AGCAAGCTGT AATAAGAAAT ATTCAATGAC CTTTGTGTAAT ATATGATGAT ATTACTAATG 180
 50 GTGCTTTATA TCATCGATTG AAAGAAGTGG ATTTAAACGA TGTCTAAAG GGTATGATTA 240
 ATCACAATGA AAACTTTGTG GATATTAATA AACCTATTGA GCAGCAATTA AAGATGCAG 300
 TGCATTTTGT TAATA 315
 55

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 433 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 920:

ACTTTGTAAA	CCTACAAATG	TAATGAATAA	TCCTATACCT	GCTGAAACAG	CCATCTTCAT	60
TTGATAAGGA	ATTGCAITAA	TAATAACTTC	CCTAAACCCCT	GTGACGGTTA	ATATCGCAAA	120
GAATATACCT	GAGAATAAAA	CGCCTGTTAA	ACCAACTTGC	CAAGGAATAC	CCATGGTTAA	180
CACAACAGTA	AATGCAAAGA	ATGCATTTAA	TCCCATACCT	GGTGcTAACG	CAATTGGATA	240
TTTAGCTATT	AGCCCCATGA	ATAGCGAGCC	TACAAATGCT	GCTAATGCAG	TCGCTACAAA	300
AATGGCACCT	TGGTCCATTT	TCATATCTTC	TGATACGCCT	TTAACACCTG	CTAAACTTAA	360
AACITGCGGG	TTAAGTCTTA	AAATATAGGC	CATAGATAAG	AAAGTTGTGA	TACCGCCTAA	420
GATTCTCTTT	TTA					433

(2) INFORMATION FOR SEQ ID NO: 921:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 439 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 921:

CTATTTTATT	TGTATAGCGC	TTGATGTAAA	GTTATTTTAG	CTGTCACTACT	ATGTGCTAAA	60
CCAAATTCAG	TTGTGTCATA	TCTTCGCTTT	TTTGTCACTG	TTATAATAGG	TATAATCGGA	120
TATAATGAAA	AGGkGAGGGA	GGATTCAAAA	TGCGTAGGTT	ATTATATTCA	TTTCTTTTTT	180
ATATGATCAT	AGGTTTATTT	AGTGGCTTTT	TCTATAGAGA	GCTAACAAAA	GCATATGATT	240
TTACTGTGAC	AACACAATTA	TCACTTGTAC	ACACACATAC	ACTTATTTTA	GGTATGTTTA	300
TGkktTTAAT	ATTATTACCA	TTGGaGAmGT	TATTTAAATT	ATCAAGTTAC	TACTTATTTA	360
ACTGGtCTTC	TATGTATATA	ACATAGGTGT	TATCGTTACT	ATAGGTATGA	TGGTGACAAA	420
AGGATTCTTC	CAAGTCACT					439

(2) INFORMATION FOR SEQ ID NO: 922:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 474 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 922:

GTAAATATCTA TATACGTATA TTTAAATGAT ATATCTGGGT ATTTCTCTTT TAATAGCGGC 60
TGTAGCCAGT CATAAATATC TtTCGATGTT GGCGCATTA CGCAACTTGC ACATATAACA 120
TCTGCCCAT AAACACCAC ACTCACGTGC TCCATATATT TATCCCCAT TGGTTTGATA 180
GATTTTATT ACACATCTA TTATAATATA sTmATAAAGA TTATCAAAAT CATCTCTCGA 240
AAGGAGACTT GCTGTGACC TACTGAAGAT ACAACGATGT TTGATCAAGT AGCAGAAAGTT 300
ATTGAACGTC TTCGTCCATT TTTATTACGT GATGGTGGCG ACTGmTCATT GATTGACGTG 360
GAAGACGGTA TTGTAAATTA CAATTACATG GTGCATGGTG GmACATGCC CAAGTCTAC 420
AATCACTCTT AAAAGCTGG TATTGAGCCG TGCATTACAC GAAGAAGTGC CTGG 474

(2) INFORMATION FOR SEQ ID NO: 923:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 554 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 923:

TCAACTTGTG AAGAAAATTT ATTAACCTTA GTAACCTCTC CAACAAAACC TTGTGATGC 60
ATCACAGCCA TATTTGAAGT TATACCTGAT TTAGATCCCT TATCAATTAC AATTGTATT 120
ATCCACTGAT CCGGATTTCT TGCCAAAACC GTAGTAGAAA TAGGATCAAA TTTTGAAATA 180
TCTTTTAAAT CAAGCTCTTT TTTTAATTT TCATTTTCGG CTCTTAATTG TTGGTCTTA 240
GATTCTAACT GGCTAATCTT ATTTTTAGAT TCTTTAGAAAT CTCCTTTTTT AAAAAAGTCC 300
CCAATCGTAC CAGAACAAA ATTAACCTGA TAACTCACA CTCGTGTGCC AAAAGACACA 360
GAATCACTTA TATATTGTTC AGGAGGTGAT TGAGATTGTG AACGTATGGA CAGCCCAATT 420
AATGCAATAA AAACGATAAT TGCACATAAA ACAACAATTA ATTTGGTATT TTTAAAAAAC 480
TTAAGCACCC AGAACACCTC TATTATGTCA AATATTGTA TATCCTTTTC TAATTATAT 540
TACTCCCAT ATGA 554

(2) INFORMATION FOR SEQ ID NO: 924:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 575 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 924:

ATCTTTAGGC ATTAAGCAAG TTTATGTAGA AGACTTTGAA CATAAATCCT TTAGCAAAGC 60
TAAAAAAGCC TTAGAAGAAA AAGGGTTTAA AGTTGAAAGT AAGGAAGACT ATAGTGACnA 120
TATGTAGTGG GGTGATGTGA TTTCTCAATC TCCTAAAGGA AAATCAGTAG ATGAGGGGTC 180
AACGATTTCa TTTGTTGTTT CTAAGGTAA AAAAAGTGAC TCATCAGATG TCAAAACGAC 240
AAGTGAATCG GTAGATGTAC CATACACTGG TAAAAATGAT AAGTCACAAA AAGTTAAAGT 300
TTATATTTAA GATAAAGATA ATGACGGTTC AACTGAAAAA GGTAGTTTCG ATATTACTAG 360
TGATCAACGT ATGACATTC CTTTAAAGAT TGAAGGAGGA AAAACAGCAA GTTATATTGT 420
TAAAGTTGAC GGTAAAACTG TAGCTGAAAA AGAAGTCAGC TATGATGATG TATAAATATA 480
ATTGAAGTAA ATGTACCAGG GTTCTCTATT GGAAGTCTCG GTATTTTATG GTTGAGATTT 540
GCGGTAGTTT TAAATGcHnT CnGTcHnTCA TATAC 575

(2) INFORMATION FOR SEQ ID NO: 925:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 307 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 925:

AAAAACGCTG CTGAGTTTAA AAAGCAACAA TTAATGAAC AAGGTATTTT CAAGAAACCA 60
GTGATTACAC CTATTAAACC ATATAAAAAAT TTCTATCCAG CTGAAGACTA CCATCAAGAT 120
TATnACAAAA AGAACCCTGG TACATTATTA CCAATATCAC CGTGGGTCAG GTAGAAAAnc 180
GTTTATAGAT CnCATTTGGG GGATCCAAAG CTTAAAAAGA TAAAGTGAC TACCAGATAT 240
AGATATATTG TTACACAAGA AACGGCACTG GACCACCATT TATGAATGAT ATTGGACCAT 300
TTGCTAA 307

(2) INFORMATION FOR SEQ ID NO: 926:

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(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 400 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 926:

CTCTACGCAC TCATTTCAGAT ACACACATTG CGCATTCGCTC ATAGAATCAG GTGTACACAT 60
 5 TAAAGAAATA CAAGAAcGAT TACGGCATAA AGATATCAAT ACCACTATGA ATATCTATGC 120
 TAAATACACA AATTCATACA AAAAAGACGC CTCCATAAG TTTAGTCACC AAATGGAAGA 180
 10 CGTCCTCGTAA TTAATAATATA TTTGCGTGCA TTCTAATTTA TACITAGAAT GAATCATACT 240
 CGTGCAATAAT GTAATTTTCT AGTTAGTCAA AACTATAAAC AGTTTACAT CATTCCTGGC 300
 ATGCCACCCA TGTTAGGTTG GTCAATTATT TTTTCTGGAA TTGATGCTAC AACCGCTTCA 360
 15 GTCGTTAAGG ACATTGCTGC AACACTTGCA GCAGTTGhAA 400

(2) INFORMATION FOR SEQ ID NO: 927:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 809 base pairs
 20 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 927:

TTTAGGTGGT TTTAAThGTT ATGGTCATTC TGGACACCTA CTTATAATAA AATTTCAAAT 60
 CAAACTGAAC nTTTGTACC GTTTGATTAA ACTCAAATTT ATTAGCTCCG TATTTAAAT 120
 30 TTGGTTGGCC TATAITCGTT TCGGTACTTA TTTCAACACC GTTTTATATA ACTCGGAAGC 180
 TATCATAAAC AATTCtGTCT CCAGCTTTTA GTTTGATCCC TTCGATTTTC ATTATTTCAG 240
 35 CATGCGTTAA ATTCCATACA AACGATTCTG TATCTTCGCC TAAATAAAT GTTATCTTTT 300
 TATACATGTT GAATTGGTCG TTAGGAGCAC TACCATGATA GTAAACTGTA CCTTTGCTCA 360
 AATTTTCAAA TGTATACITT CTTTGTCTC CGCCTGCATG CCAATCAATA TTAANAATCAA 420
 40 ACGACCACAA TCCAACTTT TTGTTTTCTT CTAACCTAG GCTTGTCCA ATACTTTCAC 480
 CGTATGGTAA TTCTGTAGTT TCGAATTTTA GTTCAAAGA AACTTTATTA CCTTTTGT 540
 TAGGGTTTAT AACTCCGTTA AAAATAACTT TATACTGTTT ACCAITTACA TAAATTTGTT 600
 45 GATCGTGCTT TGAATATTCG TAATCCGGGA AGTTGTTTTT ATCTAATTC ACGTAATCAT 660
 CAGAAGTGG TTGAGTAAAC CTGTAATICA ACTCTTCTTT TCTTCTGATh TCTCGCAAT 720
 50 ACATAGGTTT TATGTCTGTC GTTAACGAAT ACAACATATC TCGCATATAA GCAATGTCTG 780
 AACGATTTTT AACTTTACAA AAACAAGGA 809

(2) INFORMATION FOR SEQ ID NO: 928:

(A) LENGTH: 1016 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 928:

10 nAAACTATT ATCGCATCTA CAGTaATCGC TGCAGGTCTT TTAAC TACAA CTAATGATGC 60
 TAAAGCTTTC TTTAGTTATG AATGGAAAGG TTTAGAAATC GCAAAAAAATT TAGCAGATCA 120
 AGCTAAAAAG GACGATGAAC GTATTGATAA GTTAATGAAA GAGTCTGATA AAAATCTAAC 180
 15 TCCTTACAAA GCTGAAACTG TTAATGATCT GTACCTTATT GTTAAAAAAT TAAGcCAAGG 240
 TGATGTGAAG AAAGCAGTTG TCAGAATTAA AGATGGTGGT CCTAGAGATT ACTATACTTT 300
 TGACTTAACT CGTCCCTTAG AAGAGAACAG AAAAAATATT AAAGTTGTTA AAAACGGTGA 360
 20 AATCGACTCG ATTACTTGGT ATTAAAAAAC ATACTGAATT AAATAGTTGT ACGCCAAACG 420
 TTAGAAAAACA ATGCTAACGT ATTGGCGTGC TTTTTTATT TAAGTAACTT CCAATTTATT 480
 TAGCATCTTT ACGACTGITT AATAAAGCAC GTATGATTAA CACGGTTGCC ACTATATCCG 540
 25 TTACAATTTT TATGATTGTT AATACATTGC ATTTCTTTT CACAATAGCC ACCTCGCTTG 600
 TTCAAAACAT AAACAACAT TGCATTCACT TTTAAGTAAT TATTTATATT ATTTATCCCA 660
 30 ATAAGCTCAC CATTCAAATA AACACAATAT TATAAAATAA TTATACCTTT GGATATAGCA 720
 AAAAGCCACA CTCTATAGCA TGGCTTCTAT CAATTATTTT AAAGTATTAT ATTTTAAAAAC 780
 TAGATCGATT TGTCTTTGTA ATTTTTTCTT TTCATAACTG TGTGGAAT GAATTAAATT 840
 35 AACAGCTCTT TGTGCTTTAC GGTGTGTTGC AACAGTTCTT GTACGTTTGA AAAAGTTTAC 900
 AGCTTTTTGT GCATCCACAA CTTTTtLATT TACTTGWTTT kTAAAGTTTG TTGATACTGA 960
 TCATATTTTT TAGCAGCTTC ACCGTTtTTA GTTGTGCATG AGATCACCGG CAACCG 1016

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(2) INFORMATION FOR SEQ ID NO: 929:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 929:

50 AAATGAAATC ATACCTAAAA GAGATATTAT TACAGAATCA ATGATTTGTG ACTGTATTCA 60
 AAATGCAAGT ATTGATTAG AAGTATTTAA AGACGACTTA CAAAAAGTA AACTAACCGA 120

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CGTTTCTTT AGTGAAGATG TTCATGAAGA AGGTTTAAAA GTCGAAGGAT TATACCCATA 240
 TCACATCTAT ACTTATATATA TTAATGAATT GATGGGTAAA CCTATCGAAA AGAATCTTCC 300
 5 TCCTAAATTA GAAACTTATA TACAGCAACA ACACTTGTA ACGATGGAAG AATTACTTAC 360
 TATTTATGAA TGGCCAGAAA AACTTTTAAA CAAAGAGTTA 400

(2) INFORMATION FOR SEQ ID NO: 930:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 930:

20 TATTCTGAC ATGTATCATG CTCCTTCGTG CTTTATTCTA ATGTAATATA CACAATTATA 60
 CATTGAAATT CAAATTGTG AACACATTGT GAACTGACAT AAATTATACA CAATTTCATA 120
 GCGCATAATG TTTTAAAAAT ACACATTATA GCAATTATAA TTAAGTTCAT TGTGTTGTC A 180
 25 TCAAAAAAAG AAAAAGGTGA TGTTTTAAAT GGATACAGTT GAATCAGTCG GTTTTGTACA 240
 GCATGACTTA GCAGTTCATA TCAITTTGCA ACGATGGTGT GGTATGCTTA ATGTCGCAAT 300
 TCAGATTTTA GGATCGCAAA ATGACTCATA TATAGCATGC CAAGTGCCAA GTATCATACG 360
 30 ACATGGnGTG TCAGGCATAn GGCTCATACT GTGCAATATG 400

(2) INFORMATION FOR SEQ ID NO: 931:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 543 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 931:

CCAATCAATG TTGCCAATGG ATCACCTAAT GACAACCAAG TAATTGCTAC CATAGTAACT 60
 45 GCTGTTTAA TTTTACCTAA TTGACCAGCT GCACTTACGA ATCTTGTTTC AATTGTAGT 120
 AAACGTAAC CAGTTACGGC AAATTCTCTG GCAATaATAA TGATTGCTAC TACAGAATTT 180
 GTTAGTCCTA GTTGACAAAG TACAATTAAA GCACTTGCAA CTAATAATTT ATCCGCTAAT 240
 50 GGATCCAAAA ATTTCCCAT ATTTGTAAC TAAATCCATT TTCTAGCTAA ATAACCATCA 300
 ACAAAATCGC TAAGGGAAGC CAATATAAAA ATAAAACCAC TGATTATATA CTCAATTCIT 360

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ATAAAACTG GTATTAACAC TACTCTAAAA ACCGTAATCT GGTTCCGAAT ATTCATTATA 480
 CATCCTCATT TCTCACTAAT TTATTTCTGT TAAAAATATT AAAACTAACC ATGATCCATA 540
 5 ACC 543

(2) INFORMATION FOR SEQ ID NO: 932:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 932:

GATTGCGAAT GAGATTAGTG GGATGATACC GGTAGAATGG GAGCAAGTAT TTACAATAGC 60
 20 TTATGTAACG GATCAAGCTG GAGAAGTCAT CTTTAATTAT ACTAAACCAG ATAGTGATGA 120
 ATTAAATTAT TATTCAGmCA TACCTAAAGA TTGCAATGTC TCAAAAGATA TTTTAAAGAA 180
 TTCAATGTTT AAAGTTTATC GAATGTTTGA TGAGTTAAGA GAAACTTTTA AAGAAGAAGG 240
 25 GCTTGAACCA TGGACATCAT GCGAATTTGA CTTTACAAGA GATGGCAAAT TGAATGTATC 300
 TTTTGATTAT ATAGATTGGA TAAATACAGA GTTTGATCAA TTGGGCCGTC AAAATTATTA 360
 TATGTACAAA AAATTGGGG TTATACCAGA AATGGAATAT 400

30

(2) INFORMATION FOR SEQ ID NO: 933:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 759 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 933:

ATTTTACAA AGAAATAGTA GTCTTATATA TCTTAACATT TAATAACTAA ATCAAACATA 60
 TTTTGAGCCT TTTTGTAAA ATTAACTTT TAACCITTTT GATTTTACAA CAAATTATAG 120
 45 CTACGTATTG AAAATTAAG CmTGGtTTA AGTGTGTGT TAAAgYTTT TATGTTTGA 180
 TTGTATATTT ACTATGTATT CTTAAATTG TTTAAAAAT TAATGCTTTA AATTGATGTA 240
 TAATGGGAAT AAGAAATAAA TAAAAACGAC CCGCACGATT AACGTACGGG TCCACTACTA 300
 50 AAGGAGTCA AATTTTACC TcGTTGTAT CATGCAGCGT TTTACACATA CTTTAAAGAG 360
 ATGTTTATTC GTTATCGAAG GTACACCTTT ATTATACTT ATATCATTTT TATTAAATA 420

55

5 ATAAATGATTA TTAAATAGTA ACTAAATACA AAATTACATG GGGTGAATGA TAATGAAACA 540
 ATACTTAATT ACTGGTGGGA CTGGTATGGT TGGATCTCAA TTAGTTAATG AAATTAAAAA 600
 10 ATCAGATTCA CATATCAGCA TATTAACGGG ACACGACCAA ATTTCAAATG ATAAGAAAAAT 660
 TTCATATGTC AACTGGGCTA AATCTGGGTG GGAACACAAA GTTCCTCAAA ATATCGATGT 720
 GGTCAATCAAC TTAGCAGGTG CTACATTGAA TAAACGATG 759
 (2) INFORMATION FOR SEQ ID NO: 934:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 934:
 20 GATCAAGCTG GGGAGTCAT TTTTAATTAT ACTAAACCAG GTAGTGATGA ATTAAATTAT 60
 TATTCAGACA TACCTAAAGA TTGCAATGTC TCAAAAGATA TTTTAAAGAA TTCATGGTTT 120
 25 AAAGTTTATC GAATGTTTGA TGAGTTAAGA GAAACTTTTA AAGAAGAAGA GCTTGAACCA 180
 TGGACATCAT GCGAATTGGA CTTTACAAGA GATGGCAAAAT TGAATGTATC TTTTGATTAT 240
 ATTGATTGGG TGAATTCAGA ATTTGGACCA ATGGGAAGAG ACCATTATTA TATGTATAAA 300
 30 AAATTTGgNa TTTGGCCTGA AAAAGAATAT GCCATAAATT GGGTTGnAAA AATAAGnTT 360
 ATGTTAAGAG CAAGnTTGAG CTGAACATATA GGGGAGATAA 400
 (2) INFORMATION FOR SEQ ID NO: 935:
 35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 345 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 935:
 45 CTGAATATAA TTTTThCAAC TACATCTCGT TTATTAGACA CCGTGCACTG ACTAAGAAAA 60
 TTTCTCTIGA CTCCATTAGT CCTGACGAAT ACTAACATTT AACTACCTTG CTCATCGATA 120
 50 GAAACAACCT GTAATGTAA TTTCCCTTAT TTCTTAGTT TTAATCTATC AGCGATTAAAT 180
 TCGATTGCAT CTTTTTCATA AGCAATTGGA TAACTTGAC CGCGGTACAC CTAACGCTCG 240
 AAATATGATT TThTATCGTC ATAATCTAAA ATATTATnGG CAAAATCACA GCAGTTTTCA 300

(2) INFORMATION FOR SEQ ID NO: 936:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 619 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 936:

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GTTATCATCA TCTTCTGAAG TATCATCTTG CCCATCGACT TGACTTGCAT CAGTTCCTCTT      60
TAAATCATCA AACTCTGGAC TAGCTAATGT ATTATATAGT GTTTTAGGTA AGTAATAATA      120
TTGGTTTAGC ATATCTTCIT TTAATAATATC ATCTACTTGA TACATAATTC TTTGAGCCAG      180
ATACATATTA TCITCAGAAT TITGATTITG GAAAAAATTA GSTAAATATA AGAACATATT      240
TACTAAAATA TCATCTAAAT CTGAATGTAT AGATGGTATA TCAAAGAAAT CTGGCTTAA      300
AAATGCATGT TCTAAATACA AAAATAATAA ATCTGTATAT TGTGTTTtag TACGATACAC      360
TTTAATTGGA GATTCCGTAT ATGATATACG TGTATCTAAG CGAAGATCAA TTAATTTAGC      420
AGTACTTGGG CGCTCAACTT TAATAGAAIT TAATACGCGC ATATCTTCTA ATAATTTAAA      480
AAGTTGTTGG ATAAAATTTA GGGtGTTTAA AAGTTTtATC TTGtACTACT TCATTTTACA      540
TTTGTACATC CaTCATATGA TAACCGTAAG CAGCTAACAT AACATCTGTT TTTAAACCAG      600
CCATTTCGAT ATGGCTTGG                                     619

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(2) INFORMATION FOR SEQ ID NO: 937:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 615 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 937:

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TAATCCCTTT CATAATGGGC ATCAATATCA TAITAATCAA TCTAAAAAAC TTACAAATGC      60
TGACGTtACT ATTGCAATAA TGAGTGGTAA CTITGTCATG CGTGGCGAAC CAGCAATCTA      120
TAATAAGTTT ACTCGTGCAA AAATGGCATT ATCAACAGCT GATTTAGTTA TCGAACTACC      180
AGCAACTGCC AGTtTATCAT CTGGcGATCA TTTTGCCGAA CTAGCAGTTA AAGTCGcGGA      240
TTATATGAGT GTCGATACAA TTGCATTtGG TAGTGAAAT AATGALATCA AAACATTAAA      300
rCmATTAgCA CACAGCATTa ATGaAATTGA mCAATCTGaA TCCTTTTCAC aAAAAGTrAA      360

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AAGTCCTAAC AACATACTTG GTATTAGTGA CCTGAAAGCA ATTGCTAAAA ATGCTAAAAA 480
 CATCAATGCA ATTTCTATCA AACGAGAAAA TGCTCAACAT CATGATTGAT TAATTCACAA 540
 5 CCATCAGTTT GCAAGTGGTA CATCTATTAG AACATCAATC ATTAGTCAAG ATGATCATTG 600
 GCATCATGTG GTACC 615

(2) INFORMATION FOR SEQ ID NO: 938:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 938:

20 AGAATTGAAG ATGGTAAAGT TTCAAATAT CATTCGGTGA TCATAAAAGA CGCACAAGCA 60
 ACTTCACCAT ATTCAATTTT TATCAGAGGT GCTATTTATC GCTTGAAACC ATTAGTATAA 120
 ATATACGTAA GTGCTATGAG CGAGAATGCC CATATGAATA ATGACAAGCA CAATGSAAG 180
 25 AATCGTAATA TATTATTATA TCGTGATGCT TAATTTAAAT GAAAAAGATT GATAATATAA 240
 ATGTGAAAAA GTAAGTATAC CGGTAAACTA AAGTATTCAC GGTGAGAGGT GTCATGTCA 300
 TAATGATGCA CGTGTCTATA TTATAATAGC TTAAATATGT CCATACAACA CCATGTAGAT 360
 30 ATGCATATAC AGGGTATGAT AGACATAGnG TCTGnGAAAT 400

(2) INFORMATION FOR SEQ ID NO: 939:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 939:

GTACAGGTAT GATTGGTGAT CCCATCAGGT AAATCAGAAG AACGTGTGCT ACAAACAGAA 60
 45 GAACAAGTAG ATAAAAATAT CGAAGGTATT AGTAAGCAAA TGCACAATAT TTTTGAATTT 120
 GGAACAGACC ATGGTGCAGT GCTTGTTAAT AATAGAGACT GGTAGGACA AATCTCATT 180
 ATTAGTTTTT TACGTGACTA TGGTAAACAC GTCGGCGTTA ATTACATGTT AGGTAAAGAT 240
 50 TCAATCCAAA GTCGTTTAGA ACATGGTATT TCATATACAG AATTCACATA CACGATTTTA 300
 CAAGCTATTG ATCTCGGTCA TTTGAATAGA GAATTGAATT GTAAGATTCA AGTAGGTGGA 360

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GTAGATAAGC AATGATTAA TAGTTGAGGG GTATGTCGAT GAAGCG

466

(2) INFORMATION FOR SEQ ID NO: 940:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 329 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 940:

ATGAATCACC CATTGATACC AATCATTAC ATCAGTGTCA TACGAACATA TATTAAATA 60
 GAAAAAAATT ATTTTAAAGA TTATACTAC TCTTAATCAT TTTAGTGAAT TAAAAAAGT 120
 AGTGCAAAAA GCAAAATATA CTTTATACAC TACAATCAT TTATTATAA TAAAGTTTCA 180
 CCAAAAAAATG TTCCAACATA TGAAACGCGT TGTTGAGCAG TATGATTATn ACTGTCAATC 240
 AATGGATTTA CTCAACTAA ATCCATTGAG GAAATTAAT GTGATTGATG CAGTAATTCC 300
 AATGChAAAT GGCTTTCTCT ATnACTAAG 329

(2) INFORMATION FOR SEQ ID NO: 941:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 315 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 941:

CGATATAGTA CCAATTTATT TGAAGAAAAA TCCGAACCTC AAATTTCCGA TGAAGCAAGA 60
 TATACCGGTT ATTATGATTG GACCAGGTAC TGAATTGCT CCTTTTAGAG CATATTTACA 120
 AGAAGTGAA GAACCTGGTA TGACTGGAAA AACATGGTTG TTCTTTGGTG ATCAACACCG 180
 TAGTTCTGAC TTTTATATG AAGAAGAAAT AGAAGATGG ChTGA AAAATG GAAACTAACA 240
 CGCGTAGATT AGCATTTCGA AGAGnCCAGA CACAAGATAT GACAGCCnCG ATATGGAGAA 300
 GTAACGTTCC ATGAT 315

(2) INFORMATION FOR SEQ ID NO: 942:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 699 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 942:

TACCAATAAT CAACCTGTTT TACATCATCG TGTGTTTCAA TCACCTTCCT TTTTATACCT 60
 5 TTCTTACCTT TAAAGAAATGC ATCAACATCT TTTATTGAAG ATCCTTTTGA ATCTTTAGTA 120
 AATCTATAAT CTGCAAGTTC CACTTTACCC ATTAATTCTT TGTAATCTTT CCATCCTTGA 180
 ATCCCTTTAC TATCGTAAA CGACTTTTCT GTCAATTAATG GATCCAACTT ATCAAGAGAT 240
 10 GGCGCATCTT TAATTCCTTT CATTTTCTTC TCTATTCTT CATATTTCTC TAAATCTGGA 300
 TCTTTCTCTT CTTCGGATTC TTTTITACA GTTCTTGTT TTGATTCTTC TGATTCTTTT 360
 15 GATGATAATT TATGATTCCC ACCAAAAGAA CAACCTGCTA CGACTAAAAG CATAATTAAT 420
 AGTAAACATC CCAGTGTCTT TTTTATAAAC TTTCTCTCTT TAAGTTATTT TGTITGAATC 480
 AAATAACATC ACATAAATTT AAAAACTTA TTTATAITGA TATTTTACAT TAACCATCAA 540
 20 TATTTTAAAT TACTTTAAwT GaTAATTTAA GAAATTTGTT TTGTCTAATA ATTTAAGTAG 600
 TTAACAACATA GATAGATATA AAATAGTTTA TAGCCATTAA TTTATAAGTT TAAATTCGCG 660
 ACTATTTCAA TTGCCATTT AAAAATGTT TGTTTAATC 699

(2) INFORMATION FOR SEQ ID NO: 943:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 30 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 943:

CGCTCCATAA ATCAACAATG TTCGAGTCTG TAATCTAGAT GATAAAACGC CAAGAATGAT 60
 35 CATAAATGCG ACTTCTAAAC CAGCACATAA ACTAGCTAAA TAACCGACAT GTTGTTTCATT 120
 40 TTCTTTTAAA TAATCAGTAA CAAATAAAGG CATATTTCATC GTATACATCC ATTGTCCAAT 180
 GTGTAATAAA ATAAATGCAA TAAATGGTAA TAAAGCGTT TTGTCTTTAA ACATATTAGG 240
 AGCAATTTT TCAACATGTT GTTGCCTACT AATAGGGTGT TTAATGTTTA AATCCTTATA 300
 45 GAAACAACCT TGAAGTACTA AAGTAAATAA AATGATACCT ATTGGGCCAC CAAACAATCC 360
 AGCATAGCCT TTTAATCCGA TTAATTGGGC ACCAATAAAT 400

(2) INFORMATION FOR SEQ ID NO: 944:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 570 base pairs
 (B) TYPE: nucleic acid
 55 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 944:

5 AAGATGACAA TACTTTGTTT CAAGAATTGA AAAAAGAATT AGAACAAATG GATTTTAATG 60
 TTGCTGGTAT TGAAGATTTC GGCAAGTAA TGGATACATT TGAAGTTTT AATCCTGAAA 120
 10 TTGTTATATT GGATGTTCAA TTACCTAmAT ATGATGGGTT TTATTGGTGC AGAAAAATGA 180
 GAGAAGTTTC CAACGTACCA ATATTATTTT TATCATCTCG TGATAATCCA ATGGATCAAG 240
 TGATGAGTAT GGAACCTTGGC GCAGATGATT ATATGCAAAA ACCGTTCTAT ACCAATGTAT 300
 15 TAATTGCTAA ATTACAAGCG ATTTATCGTC GTGCTATGA GTTTACAGCT GAAGAAAAAC 360
 GTACATTGAC TTGCAAGAT GCTGTCGTTG ATCTATCAAA AGATAGTATA CAAAAAGGTG 420
 ATCAGACGAT TTTCCTGTCC AAAACAGAAA TGATTATATT AGAAATTCIT ATTACCAAAA 480
 20 AAAATCAAAAT CGTTTCGAGA GATACAATTA TCACTGCATT ATGGGATGAT GAAGCATTGT 540
 TTAGTGATAA TACGTAAACA GTAAATGTGA 570

(2) INFORMATION FOR SEQ ID NO: 945:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1241 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 945:

35 CCGAGnCCAC CGTCCAAAG TCCATTTTTC TCCCCATCCC TCTCTGAATT GAACTATAAT 60
 TTTTGAAATT ATTAATAATG CTATTTTThT TATTTTATCA AAAACTGATT ACAATATCAC 120
 ATAGAAAAATG AAATATATTT TTCCTTGACT ATACATAACT GTTATTCTTT TGGATATTTA 180
 40 TATTAAATGC ATTGGTAGTA GTTGATGCGC ATTAATGTTT GACGGTGTAT AGTATTAAAT 240
 ATATTGAAAG TTAGTTGGAA GTTGATAGTA GGAGTGGGAG CATTGAAGCG ATTTGTGGCG 300
 ACGGTATTAT TATTAAGTAGT CTTTATATCA GGAATGLGTA ATGTAaATA TGTGAAAGAA 360
 45 ATaGATGAAG CAGTTAAaAT TCAAAATCaA AAACAAGAAC ACTTGCCCA AAAAGGCAAC 420
 GGTGATCGTG TTGATCATTT TGAACGCAAA GATGCTAATA TTTATGTCTA TGATAAGGAT 480
 AAAATTATCA TTTTAGCTTA TAAACCTTTG AGTAATGATG ATGAAGTGCA TTATTATGCA 540
 50 TATGATTTTA GTGATAAACG TGTATCATAT AAGCAAGATT TTGATTCGAG ACGATATTAT 600
 CAACAACATG ATGCGGATTA TCATGAAGAA AATATGCGA ACTAGATATG AATGAGGAT 660

	GGTAAAAAAG AATCAGCAAC GACATCTTCG AAAAACGGCA AACCATTAGT TGTCGTATAT	780
	GGCGACTATA AATGTCCTTA TTGTAAAGAA TTAGATGAAA AAGTCATGCC AAAGTTGCGT	840
5	AAAAATTATA TAGATAATCA CAAAGTGGAA TACCAATTGG TCAATTTAGC TTTCTTAGGT	900
	AAAGACTCAA TTGTTGGTTC GCGTGGGAGT CATGCAGTAT TGATGTATGC ACCTAAATCA	960
	TTTTTAGATT TTCAAAAGCA ATTATTTGCT GCCCAGCAAG ATGAAAAATA AGAATGGTTA	1020
10	ACAAAAGAAC TATTAGATAA ACATATTAAA CAACTGCATT TAGATAAAGA GACGGAAAAAT	1080
	AAAATTATATA AAGATTACAA GACAAAAGAT AGCAAGTCTT GGAAAGCTGC AGAGAAAGAT	1140
	AAAAAAATAG CGAAAGATAA TCATATAAAA aCGACACCAA CTGCATTAT TAATGGCGAG	1200
15	AAAGTTGAGA TCCATATGAT TATGAAAGTT ATGAGAAGTT A	1241

(2) INFORMATION FOR SEQ ID NO: 946:

20	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 1057 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 946:

	TAATACAATG ACACCATTTA GCATGACCGT TATCCCTGTA ATTCAGCTGA TATTATCTGT	60
30	TGCAATTTTA TGTGACGAAC TGTGCACTT AATTGTGATA ATCAACAAAT ACAAAAAATC	120
	TAAAGTGAAC AATTATGATA CAACCGTGCA AACGATATGT AGTATAACTT GTCAACTTAG	180
	ACTTATTGAT AAATATATTA ATAGTGGTTT ACCATAGCAG GAGATTTTAC aTCAAAATTT	240
35	TGAAGTAGCG TATCaATCTT TGAATCaTCa ATATATACTT TATGTAAATT TTTCaTATAC	300
	ATCGAATGAG AAAGTGCTTC aTAATTTAAT GAAAAAGATA TATGATCTCC AACTTGATAG	360
40	TGCTCTTGAC CATTTAAATC AAGCATTAAT TGATCACTCG AAGCGCCTAA AATATTGATA	420
	TGCTGATCCA TAGGTGAAAT ATTATCGACT TTTGTATCTA AATAACCAAT ATCTACAATA	480
	GCTTGTAAGA ATGATTCAIG CGTTTGTGTA TTAACTCGAG GTTTAATTTC TAAAACTCA	540
45	GCCTCCAATG TAATCGCATC TTGATATAAC ATAGCGATCG CTTGATTTGT CGTGTATCA	600
	ACACCTCTAA ACAACGTTTC ACCTATTGCG AATTCAITTA TTTTACCCAA ATCATATAT	660
	AAAAGTTGTG GTAACATGCT CGAATTACCA CCTGAAATAA TTTTCAATCG ATATCTTATT	720
50	TCTCTTTCAA CAGCTGAGAC GAATCGATTA ATCATAAAGA TATCATCATC ACTTGGCGCA	780
	TCAGATTTAA AACACATAAA ATTGAATGCT AAACCTACAA AATGGATATT TTTCAAGTGA	840

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CAATCTACCA TTAATAAAAT CTTATGTITT TTCTCTAAAA CTTCTGgCTA CTTCAITTTAT 960
 TTGATGTATG GGIAGATAAT TCCGGTTTGG GATACCTCCA TATCnAACCT TTTTTCCTAA 1020
 5 TCAATATCCT GGAAnCC TTTTITGGG CAGGGCG 1057

(2) INFORMATION FOR SEQ ID NO: 947:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 649 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 947:

GATATCCGCT CGATGAATAT ACCTTTAAAG GTGTTGGTGC AAATTCGTAA CAATTAAAGT 60
 20 CTATGAATCA TGATCTTTA AAAAAGGAGT ACATTTCAAA TGACTGTTAA ATATAATCAA 120
 AATGGCGAAT TAACAAATGA TGSTATTAGT TTAAAAACGA TTGCACAAAG CTTTGGGTACA 180
 CCTACCATTT TTTATGATGA ACTACAAATT aGAGAACAGA TGCGCCGTTA CCATCGCGCA 240
 25 TTTAAAGATA GTGGATTAAA ATACAATATT TCATACGCCT CAAAGGCATT TACTTGCATT 300
 CAAATGGTCA AACTTGTAGC TGAGGAAGAT TTACAGTTAG ATGTTGTTTC TGAAGGTGAA 360
 TTATATACAG CTTTAGAAGC AGGTTTGTAA CCGAGTCGCA TCCATTTCCA TGTAAACAAT 420
 30 AAAACGAAAC ATGAAATTAG GTATGCTTTA GAArATAATA TCGTTATTT TGTATAGAT 480
 TCATTAGAAG AAATTGAAAT rATAGACCGC TATGCTrATG ATACGGTTCA AGTTGTATtA 540
 CcGAGTTAAT CccAGGTGgT TGrAAGCcAC mTrCaCaCgA aTTTATTCaA ACyGGGcaag 600
 35 AAgGATAGGT TAAAGTTTTG GGATTAAncC nnTTTCCCAT TAATGGGCG 649

(2) INFORMATION FOR SEQ ID NO: 948:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 472 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 948:

TACAAGCTT AAAACAGAG CTTAGTyTCG TTGAACCAT AATTAGCCGC TTAGAATTAG 60
 50 AAGAAGCTAA TGATAAACTA GCTAATATCA ATGATAAGTT AGATGACATG TATGATTAA 120
 TTGAACATGA AGTTAAAGCT AAAAATGATG TCGAAGAAAC AAAAGATATC aTTACGGATA 180

55

AAAACTACTA TATAAATGAA TCTGATGCTC AGAGTGTTCG TCAATTGaa AATGrAATTC 300
 aAAGTTTAAAT TTCTGTATAT GATGATATTT TAAAAGaAT GTCTAAATCT GCTGTGCGAT 360
 5 ATAGCGAGGT TCAGGATAAT TTACAATATT TAGAAGATCA TGTCACAGTT ATTAATGACC 420
 AACAAGAAAA GCTACAAAAT CATCTGATTC AATTGCGTGA AGATGnGCAG AA 472

(2) INFORMATION FOR SEQ ID NO: 949:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 949:

20 AGAGGATCCC AGCGTTTGT TGATCCAGCA GCCGATnCAG AATACATCTT CTATGCATAT 60
 AAACGTTTCA ATTTGGAATT GAAAGATCCA AACTTCACTA GTGAAGAAAA TATGTTTAAA 120
 GATGTATCAG ACAAAACCATT AATACCTGCT CGTAAAGCTC AAATTACAAA TGCGAACTAT 180
 25 AAACGACATG GTATGAAGTT GATGATTCTT GCGAATGACG AACCATATAA CAATGAGTTC 240
 AAGAAAGATG ATCGAAAATG CGAAGATGA GAAATTTCAA AGGTGCGCAn GTCAAGCCAT 300
 GTGTGAGGGG GGCATATGAT TTnGGTCAT CAGTAAGGAC TGTGTCATGC CATGCCCCATC 360
 30 TGTGTACnG ATCTCTAATA GAATCTCAGA TGCCCCGCAA 400

(2) INFORMATION FOR SEQ ID NO: 950:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 556 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 950:

AAAACTCTCG ATGACAAAGA AATCTAATGA TGTTCCTTTA AAATGACCAA ACTGCAACGG 60
 45 AATGATATAA CCACACTTGA GATATGGCGC TTCTTTTTTC AACTTAGTCA TCACATCATA 120
 ATCCAAGAC ATCACAGAT ATTGATGTTT AACACCATGC TTTTTCAAAA TATCAATAAC 180
 ACSTGTGTGA TAATCTGCTG GTTCTTTACC ATGTGGCTTT AACTTACTA GTAGCTTCAC 240
 50 ATTTGATTGT TTAGCGTTT CAATAAATTC GTCTAAGGAT ACAAAATTTG CTTTCATGTCC 300
 ATTTTGACGC ATTTTCAAAC CGACGATATC TTGAAATTA GATTGAGAAA TATTTTATT 360

55

CATAATGTGA TCTAACTCAA CGTATTCGAC ATTGCGTTTT GCAGCAGCTT TCAATGACGG 480
 AATAGAATTT TCAACACCTT TATCTTCGAA ACCACGTGGC CAATAATGGA GATATTGTAA 540
 5 TTGATAGTAT TATTGG 556

(2) INFORMATION FOR SEQ ID NO: 951:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 469 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 951:

TTGTGGTAAT GATGTTAATC AGTATATTTC TACTTTTGAC AATGACATCT AAAGGATTAA 60
 20 GCAATCTTAG AGTAATAGAT GATGAGGCAA ATATCATTTT TTTTATTACT GAATGGAATT 120
 ATATTAAGTC GCAAGCTATA GCAAACTCAAG GATATATCAA TGTTAGATT TATGAAAACA 180
 GTGACACTAT TAAAGTAATA GAGAATAATA AAATACGATT TCTAAAATTA AAAGTAGGCA 240
 25 AAATAATTAA TGTGCAAAA GTTGATATTA TTGCCTTTGA TAAAAAGGG AATATCAATA 300
 AATTGGTAG CATAACAATT TACAATAACA ATTCAATTTA TAGGAATAAT ATTCCATATT 360
 GaAAAAAGCa AGAATTCGTT ATGAAAAGCT ATAAGTGTA AGGTTCAATC TTAATAGATA 420
 30 GTATGGCTGG nTTTTTGCCA ATTGGGATTG nATTACATTA CTATTGATT 469

(2) INFORMATION FOR SEQ ID NO: 952:

(i) SEQUENCE CHARACTERISTICS:
 35 (A) LENGTH: 730 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 952:

ACATnTATAA TnCTTATTGG CTGCTCCTT TCACTTTTTA AGAGTAAAAA ATAACCTGAA 60
 45 ACATAACTTT AACATCCAAG TTTCAGGTGA GTGTAATGTA AATGATTAC TTTGTTnTAT 120
 TATGATTAA CATCTAATTC TCTGCTTGTA AGTGCTTTAA TCATCTCTGG ATCAGCATGT 180
 GAGAAAAATT GGCTATTACT TTCTTCTAAT GTCGCAATTT GTTGTTTATC TTCTTCTGTA 240
 50 AGTTCAAAAT CAAATATATC TAAGTTTTGA GCCATACGTT CTGGATTAC TGATTTTGGC 300
 AGTACAACAA TGTCACGTTT TACTAACCAG CGTAAATAA CTGTGCAAT TGATTTGTTG 360

55

	AATGGTGCCC AAGCTTCTAC CACAACATTT TCTTGTGAA GTGCTGCAAC TTGTTCTTCT	480
	TGTTGATGGA ATGGATTAAT TTCTATTGG TTCACTTGTG GTTGAATTGG ATTGTGAATA	540
5	CCTAAATCTA CAATTGCGATC AACGCCGAAG TTAGATACAC CGATTGCTTT AAATTTTACC	600
	ATTTTC:TTT AACTCCTCCA ATGCACGCCC ATGGAGCCAT ATACGCCAT TGGTAAAGGT	660
10	TGGGTGGAAT nAAGCACCTA GGATCCAGGA TAGGTCCCAA ATTTTAATCC GGTGGnAAT	720
	GGATCGTTC	730

(2) INFORMATION FOR SEQ ID NO: 953:

15	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 400 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 953:

	ACAAATGACA ACGTACAATG ACGTCTTCAC AAACATGCAT TTTAGGAGAT TGATTATTAC	60
25	AAATATCCAG TTTTTTGTTA CATCTATTGG CAAATCTGCA CTTATTAACG TGAAATGCTT	120
	GGATTGATGG CACAATTCCT TCTATCGTTT CAAGTCGTTT CTGCTCTTCT TTAAGTTTGG	180
	GAATTGTGTA TAATAATTTT TGGGTATAAG GATGTTTCGG ATTGTGTAGT ATTTCTTTTA	240
30	TGCTCCCAA TTCTACAATT TGACCTGCAT ACATAACTAA GACITTTATCG CAAACTCAG	300
	CAACTACACT CAAATCATGT GTAATCATCA TAATTGCCAT TTGCGTTCC TTTTGCAAT	360
35	CTTTTAATAA GTCTAATATT TGCGTTGAA TCGTGACATC	400

(2) INFORMATION FOR SEQ ID NO: 954:

40	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 251 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 954:

	TAAATCTTGA GGACGTTTGG TCTGAAAGCG ATGCTCAACT GTTGATAAAT CCAATTCGAT	60
	AACATCTGTA TAATTAGGAT CTCTTTTCTC AACATCAAA ACATATGGTT TTGTTTCAAA	120
50	TATTTCTTTA CTAGCGCGAT ATGTTGCTCT GATCTACCAG TTAACCTCAT ATATTTAAGA	180
	ATTCTCATCA ACTGGGGAAG AATCCGCAAG TTGCTCCATA CTCTGGTGCC ATGTTTnCAA	240

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(2) INFORMATION FOR SEQ ID NO: 955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 514 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 955:

AAACATTAC ACAAGTAGTA GAAGCAATTT ATGATGAAGA AGGTAACAGC TTaGangCGG	60
CGCGCCATCC ATTCAAAATC GTTCAAATTA AAGTGGATCG CCCGATATAT CCAACAACA	120
TGATGAGAAA GGAAATTGGC TAATGAAAGC TACTACAATC ATTGGCATAG CTGGTGGATC	180
TGGCTCAGGA AAAACAACCT TAACTAACGA AATTATGAAA AACTTAGAAG GTCATAGTGT	240
CGCTTTACTT GctCAAGATT ACTATTATAA AGATCAAAAG CACTTGACTT TCGACGAGCG	300
CCTAGAAAAC AATTATGACC ATCCATTGCG ATTCGATAAT GATTATTAA TTGAAAATCT	360
TAAAGACTTG AAAAATGGTA AAGCAGTAGA AGTACCGACA TATGATTATG CtAGTCATAC	420
AAGAAGTGA CATTACCATT GGATTTTtAA ACCTAAAGAT GctTATTAT CGTAGAAGGG	480
CCTTTTTGCG CTTTAGGAAA ATAAGGGTAT TTAC	514

(2) INFORMATION FOR SEQ ID NO: 956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 956:

ATTTTAACGA ATATCTTGCC GTACGATGCC CANGCTGCAT CTGAAAAGGA TACTGAAATT	60
ACAAAAGAGA TATTATCTAA GCAAGATTTA TTAGACAAAG TTGACAAAGC AATTGCTCAA	120
ATTGAGCAAT TAAACAGATT ATCGGCTTCA TCTAAAGAAC ATTATAAAGC ACAAATAAAT	180
GAAGCGAAAA CAGCATCGCA AATAGATGAA ATCATAAAAC GAGCTAATGA GTTGGATAGC	240
AAGCCATAAA GTCTCACCTG AATGACGGTC AAGTGATAG CATAATAGTC ATGCTAAGTT	300
AATGAGTCTC AATGTTAGG GCACAAGTGC GGGCGTCTAT GCATGAATGT TGCCACGCTC	360
ACAACTGGGA AGTGTAATAG TGACTGTA	388

(2) INFORMATION FOR SEQ ID NO: 957:

(A) LENGTH: 394 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 957:

10 AACAAAGTAC ATCGCAGTTA CGAGAAGAAA TAAATGCATT GTATAATCAA GTTATAGAGG 60
 TTGGACAAGC GTTATCAAAG CAGCGTCGTA TAGTCGCTAG GGAGTTAAGw GACCACATTG 120
 TATCGGAAAT TCAAAACTTA CAAATGAAAG ACGCAATCT TGAGATTCTA TTTAAAAAAT 180
 15 TAGAAGAACC GAATATTGAT GGAATCGAAT TTGTAGAATT TTTAATCAGT CCAATAAAAG 240
 GGGAAACCATT AAAAAGTTTA AATAAAATTG CGTCAGGTGG AGAACTTTCT AGAATTATGT 300
 TAGCGTTAAA AAGTATTTTT GTTAAATCGa GAGGTCAAAC TGCAATTtTt TtCGATGAGG 360
 20 TTGactCAGG TGATCTGGr caAGCTGcAC CAnA 394

(2) INFORMATION FOR SEQ ID NO: 958:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 503 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 958:

CCGCCATTTT TTTGATTTC TTTTCAAGT TTTTCACGGT CTTTGAAGA TAGACTATTG 60
 35 AAATCTTTTG CACCACTATC ATCAAAATCA ATATCTGCTT TCAATTTTGT GCTAGATTTT 120
 AAAATGAAAT TAATTGGTTC TTCAGcATAT TTGATGCCGA TATyTAACGT AGATTTCGTA 180
 GTGTTATTyT TTACGTCAGA ATCTATATTA TTTTCAAAAG TGAATTCATT TTCGTCGCTA 240
 40 TATTTATCTA ATGCGACAGT GATTTTACCT TTATCTTGAC GTTTTGTCGC ATCTACTTTT 300
 TCCTGGTTAT CTAATTGAT TTTTGATTCA TCATATTCTG TCCTTTTACC AAATTCGTAT 360
 45 TTATCATTAT ATTtATtATC TTTwCTTTTA GAAGATACGC CTTTAATtGT ATATTTCGCT 420
 TCAGCATACG TGTATTtATC TTGATCGAAA TCAAGTGCgt AATCTAGTTT TAACTtATCG 480
 TCCTCTAAAG TATTAGTACC TTT 503

50 (2) INFORMATION FOR SEQ ID NO: 959:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 307 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 959:

5 TCAAACGTAC AGAGCTTGGT AAGTGTITAG ATTATTTACG AGAGAGCGAC ACATTAGTTG 60
 TCTATCAACT TGATCGGTTA GGTAGAACGA CAAACTATT AATTGAATTA TCACAATGAT 120
 TCGATGATAA CGGAATTGAC TTACCAATT AGTAACCTGA ACATTTCAC GAAAGACCCC 180
 10 ATGGGGCCAA AATGTTTTTA CCGATGATGA GTGCCTTTT CCGGTTAGA AGTTAATTTA 240
 CTATGTGAGT GTATAAATA GACTnAGCAG CCACAAGnCG AGAGGCCGAA AAAAGCGGGC 300
 GCCCTCT 307

(2) INFORMATION FOR SEQ ID NO: 960:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 960:

25 ATAAGGACAT TTATAGTCGC CATATACGAC AACTAATGGT TTGCCGTTTT TCGAAGATGT 60
 CGTTGCTGAT TCTTTTTTAC CGCAAGCTGT TAAATTAAC ATGCTCACTA TAAATAATGT 120
 30 TAGTAAITTT TAGTCCATAA TTAATCCTAA TCCTAACCA n GTCnGnAAA TTTCTCCAT 180
 GATAATCCGC ATCATGTTGT TGATAATATC GTCTCGAATC AAAATCTTGC TTATATGATA 240
 CACGTTTATC ACTAAAATCA TATGCATAAT AATGCACTTC ATCATCATTA CTCAAAGGTT 300
 35 TATAAGCTAA AATGATAATT TTATCCTTAT CATAGACATA AATATTAGCA TCTTTGCGTT 360
 CAAAATGATC AACACGATCA CCGTGCCTTT TTTGGCAAGT 400

(2) INFORMATION FOR SEQ ID NO: 961:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 961:

50 ACAATTAGTT ATACCCAAA GAGTTATGTC AGTGAAGTAG ACAAGCAAAA CTCAAAATCT 60
 GTTAAATGGG GTGTTAAAGC AAACGAATTT GTTACGCTGT ATGGAaaaaa ATCTGCGCAT 120

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GCTCCTGATA ATCAATTGCC ACCTTTAGTT CAAAGTGGCT TTAATCCATC GTTTATCACT 240
 ACACATATCAC ATGAAAAAGG TyCagTGATA CGAGTgaATT TGaAATTTCa TATGGTAAGA 300
 5 ACTTAGATAT TACCTATGCG ACTTTATTCC CTAGAACTGG TATTTACGCh GGAAGGAAGC 360
 ATAATGCATT TGGAAATAGG AACCTTGTAh TTAnGTATGG 400

(2) INFORMATION FOR SEQ ID NO: 962:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 358 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 962:

20 CTTTACAAA GACAAATTAG CGGTAATCGG TAAngATCGT TGTTGATCCA GTTGCACTAT 60
 TGAAAGAATT AGACGGATTA AATGAACGTG GCATTCCTAC AAGTAATTTCa CGTATATCTA 120
 ATCGTGCGCA AGTGATTTTA CCATATCACT TAGCACAGA TGAATATGAA GAACGTTTAC 180
 25 TGGTGACAA TAAgATTGGTA CACTAAAAA GGTATCGGTC CAGCATATGT AGCCAAGTCA 240
 CGTATCGGTA TCGTATGCG ATTACTTGAA AAGAACATCG AAGATATTAA ATCAACATGA 300
 TATAACCAGC TATTCAAGGA TGTTACGAAC ATGnCACATT GATGAAnCTT GAGATATA 358

(2) INFORMATION FOR SEQ ID NO: 963:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 258 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 963:

AGTGAGCAGG TTGAAGTAGT AGGSCCGATT CAAATGGAAA GAGATACACA TAAAGATGGT 60
 AAGGTAAAGT GGCAATTGCT TTATATAATG AATCAGGATG ATGATGAAAT TAAGCCACCA 120
 45 TTTTATTTC AATGGGAGGA AAGTGATTCC ATTGCGTACT AAAAAATTGC AAAAAATTTT 180
 TCAAAACCAT TTTCAATTGA AACTGTATTG TGAAAGTAA ACCGTACAA CAGTATCGAT 240
 50 TGGTTGAAnT GGTGnAT 258

(2) INFORMATION FOR SEQ ID NO: 964:

55 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 388 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 964:

TTATCAAACC	GCCATAGCCA	CATCTCGATT	CAAGGATAAA	TTGTCTTCT	CATATCTTAT	60
CTCTCATGAC	AGTGCACGAT	ATATATCTTT	TCCAAATATT	CATCACTTTT	TTCTGTTTAA	120
AATCATTCTT	ATTATTAATG	CTTTAATGAC	AACTTATTTA	ATTTATTGCA	TTTAATGCC	180
TGCTTCATTT	TCAAATATTA	ACTTTAATCG	ACTAGCTCAT	CACACTATTT	ACCCCTTCCA	240
CCTATCACTA	CTGAATTCAA	AACGATTGTG	TTACAAATCC	CCTTATGCCA	ACGGTCGAAT	300
TTTCATCATG	TTACATTAA	TTGCAAATGC	CCTCTTGAAA	TATTTTAAAA	TTAATATTAT	360
TCTTAGCATA	CTAGTCGGAA	TTATATTCT				388

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(2) INFORMATION FOR SEQ ID NO: 965:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 602 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 965:

AAAGTGAGGT	ATAGTCCGAC	CATACTCTAA	AAACGTAGCG	AGATAAATAT	ATTTCATCC	60
TAACCTTTAT	GTTTGTAGGC	ACTTGCCATT	TAGGATATTG	TCGTTCTGTA	TACGACACTT	120
GTTGTATAAA	TACACCTAGT	CCAAATGGCA	GCATCATGAG	TAAGATACTT	CTTAAATAAC	180
TTAAACCAAT	ATCATGCCAT	ATGTGTCCAA	TAATCAATTG	AAAGACAATG	ATAGATACTA	240
TTAAACGAT	TATATTATTT	GTCACTTGTT	CAAACGCACT	CCTTTTCCAA	ATAATAGAAT	300
TGCTGCTTGC	ATGACAACCA	TAAACATAC	AAACATAGCA	GTTTTAAGCG	TTAGACTTTC	360
TAGAATGTGA	TTTAGAACAT	GTAAGGGCTC	ATTAAGGAAA	TAAACGGaAT	GTAAGCGTAA	420
GAAACGACCA	ATATAAATTC	CGAATCCATT	TAAAAACATT	AGcACGaCAA	CrATTAATCT	480
ATTaAGCCAA	CGGTaGaGAG	TCAATGcTAG	TATTTCAAAA	TAGATTtHAAA	TCATCACATA	540
AACCGCTAAG	AAGACACCAA	GCAGTAAATA	GGTAAAGTAT	TTCCACTCAC	TTAAATTTAG	600
TC						602

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(2) INFORMATION FOR SEQ ID NO: 966:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 744 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 966:

5	GTCCTAAGGT AGATTTATCT ACAACTGTTG TTATTTTAnC AATTATTGGA GCGATTTTAT	60
10	TAATGTTTGC TAGCATATAT TTTATnAAAA TTGTGACATC ATACITTTACT AAGAACTTT	120
	TAGAAATTAA ATTTAATTCG AAATAGTATT TTCAATGAAG TGCTTCAAAG CTAAACTTTC	180
	ATGACATTTT TTGAAACTA GAGAAAAATGG CTCATCAACT TCTAGCTGAA TGCCTTCTTG	240
15	AAAATGTATT AATGTTGAAT TCTCTATGGC AGTCATACCA ACAATATAAT GTGCATTGAT	300
	ATAAATTTGT ATCGGTGCAC GTTTATGTTT TAACGGAAAA AGTATAGTTT TTGGGTTGAT	360
	GTAAATAGGA ACCAGTTTAT TAATATTTAG TATGTTTTTT GCAGTCTCAA TTAGCACACT	420
20	TTGTGATGAT AAATGCAATT TCGCATAATA TGaACGAGT TTGTTAATTG GAACTTTAAG	480
	AATGTAATCG CAATGTAAAA AGACACAATT TGTTCGAGA TGGTTTGAAG TAGCAGTTTG	540
25	GATATAAAGT AGATATTTAG TAGAATTGTC TTGCAATAT AGTACTCCTC GTTTAATAAG	600
	TTGTTAAATTT AATGGTTAAA ATAAATTTAT ATGAAGATGT TAGGGTGT TT CAACATCATT	660
	AACACATCGA CCGAAATTTC ACAATAAACT AATTAAAAAT ATGTTGGCAT TTACGCTTAA	720
30	CGGACATCTT AATTAAATTTA ATCG	744

(2) INFORMATION FOR SEQ ID NO: 967:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 503 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 967:

40	TACTTTGCAG GAGCATTAGG TAITCTAGCA TTTATAATGT CAATTGTATT GATTACGAT	60
45	CCGAAAAAGT CTACGACAAG TGGTTTCCAA AAGTTAGAGC CACAATTGCT AACGAAAAAT	120
	AACTGGAAG TGTTTATTAC ACCAGTTATT TTAACACTTG TATTATCGTT TGGTTTATCT	180
	GCAATTTGAAA CATTGTATTC ACTATACACA GCTGACAAGG TAAATTATTC ACCTAAAGAT	240
50	ATTTTCGATTG CTATTACGGG TGGCGGTATA TTTGGGGCAC TTTTCCMAAT CTATTCTTC	300
	GATAAAATTA TGAAGTATTT CTCAGAGTTA AcaTTTATAG CyTGKCaTT AwTATATTCA	360
55	GTTGTGTGTC TAAAwTawT AgTTTTTcGCT AATGAGCTAT TGGGTCAATA ATGGTTAATC	420

TTTTCnAAn ATTGcNGGG AAG

503

(2) INFORMATION FOR SEQ ID NO: 968:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 465 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 968:

15	TACAGGTAA	AAAGGTGGTC	CGTTTATCGA	TTCATTAAAC	CATCGTAGTT	ACACGAAAGC	60
	ATATGTTTCA	TCAGAAACCG	ATATTCCATT	TTATGCTGAA	GCATTGGAA	TTAGAGAAGA	120
	AAATGTTGTA	CCAACAGGTG	TACCACGTAC	TGATGTACTA	TTTGATGAAG	CTTATGCAAC	180
20	ACAAATATA	CAAGAGATGG	AAGATGAATT	GCCAATTATA	AAAGGTAAAG	AAGTTATTCT	240
	ATTCGCACCG	ACATTTAGAG	GTAATGGTCA	CGGTACGGCA	CATTATCCAT	TTTTTAAAT	300
	TGATTTTGAA	CGTTTAGCAA	GATACTGCGA	GAAGCATAAT	GCAGTTGTGT	TATTCTAAAT	360
25	GCATCCGTTT	GTAAAAAATA	GmCTTAATAT	TcaCgTGaAC	CATAGACCAT	ACCTTAATCC	420
	GATGTGGTCC	AGATCCATCC	GTGGAAGTT	AAACGGATAT	TCCnC		465

(2) INFORMATION FOR SEQ ID NO: 969:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 300 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 969:

40	AATTTCGAAC	AACGAGCTGG	CAACAACATA	AGATGACAGA	GGCGAATGGT	CAATCAATTC	60
	AAGTTAAGCT	AAATATGCG	CAAnGCGATT	TGGGATATTT	AACTGCTGGT	AATTACTATG	120
	CAACAAGAGT	GCCGGATTTA	CCAGTAGCGT	TGAAAGTTAT	GAGGGTATTT	ATCGGTATTC	180
45	GTAAGAGTGA	TACAACAACn	ATTTACTCAC	ACCTATACTC	TAAAAGATTn	CACACGTCAT	240
	CACAACGCGC	ACTTGAGCAA	CATGGACAGT	TCCTAATGAA	CATAATCAAC	GGTATTGTTC	300

(2) INFORMATION FOR SEQ ID NO: 970:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 970:

5 ATACGCGAGC GAACGGTGAA GCGACTTGCT GCTGCAGAAC GTCTGCGACC TTGAGCAACA 60
 ACATGAATGG TCTTCGGTTT CCGTGTTTCG TAAAGTCTGG AAACGCGGAA GTCAGCGCCC 120
 TGCACCATTa TGTTCCGGAT CTGCATCGCA GgNATGCTGC TGGATTATCA TCCGATTTTT 180
 10 AAAACGTTAT TAGGCGTTGT CGTTGCAATT CAATTTACAG TACCTGCTTT GATTGGTGCA 240
 TTGGTTGCCA TGAATTTGA CCTATCGCCA TAGCAATTG CTGTTGTGCG AAGTGCAGCA 300
 TATGTAGGAA GCGGTGCAGC GCAGTTTAAA AATGGTGCTT GGATGATTAC GGGTATTGTT 360
 15 GATTTAATnA ATACAATGAT TACAGCAGCG ATTGCAGTTG 400

(2) INFORMATION FOR SEQ ID NO: 971:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 251 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 971:

25 AAGTGTAAGA TTAGAATAAA AAATTTATAA ACGAATTGAG AAAGACCAAA GCTAGCAATT 60
 30 ATTCAGAAAT TAAATCGAAG AGTCCTACAG TTAATGACTT ACCTGAACGA GATTATATcNa 120
 ACAAACTCCA GTATGACCAA TATGGCAAAAT GCCGTGTCCA TGTTAACTGA TGA AAAAGTAC 180
 35 TTTGGTGSTA GTTTGAAAG ATTACAAGCA TTGACGACAA AAACAACATT ACCCGTATTA 240
 TGCAAAAGnCT T 251

(2) INFORMATION FOR SEQ ID NO: 972:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 414 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 972:

45 TGAAGCTCTT aATAAATCTT TTCTTGAACA CACACCAACA AAATCGTAT CTTCATTAAT 60
 50 AATAAATAAT GTACTTACAT CTCTCAAAAA AATTGTACAA ATAGCGTCAT AAACGTTGTT 120
 ATTCTCTCTT AGCACACAG GTTGAGACAT ATAGTCCTTA ACCTCAAATT GTCGAAGTTT 180

TTCTAAAAAA CCTGACATTG TTAATATCGC TAAATCTGGT CTAAGCGITG CTCTTGTTAA 300
 ATTCAACTTA TCTGCTATTT GTTCACCAGw AATGGGTCTCT TTAGTTTTTAA CAATTTTCGAT 360
 5 GATTCTGTTCT TGTCTTTGAC TGAGTTCTTww AGGkCTTCAC CCCTTTTtAT GCnC 414

(2) INFORMATION FOR SEQ ID NO: 973:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 747 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 973:

GAAATCGATA CTAATATCTT CTTTATTTAC ACCTGCTAGT TCAGCTTCTA AGTAATATAA 60
 20 TTCGTCTGTT CATATATATT CGTtACAAAt GAAGGTGTTG AAAAGTAaTT AAaTaCTTGT 120
 TtaCCTAAAT CTTTAAATGT ATCACITGGA TTACCGTTAA AAAAGTTTTG ATTCTCGAAT 180
 TGATTGAAGT TCAAtATCATC ACTTCCATTA TAGAAATTG TATTACAAAG CCATTATATG 240
 25 AGTAGTATTA AAAAGTTAA AGTAAAAGGG GAGATAAAAA AGTAATAAAT GGGTAGATTT 300
 GTGCCTGATA AGGAATCAGG GCAAAAGAAC TGAGCATCGA GATTATACA AGCAATAAAG 360
 ATAATGAATA AACATATCGA TGCATACTTC TGCCCATCAC CTTATGATAG GGAGTTATTT 420
 30 TTTGTCGGAA TAGTCAAAAT TTTTAGAAAC AAAATTCCGC AAATTATTAA TTATATCTGA 480
 TGCCTTCGT TCTGAAATGT TGAATTCATT AAAGACtTTA ACAGAAATTT CAGCAAGAGG 540
 35 GCTTTTTATT GCTTTACCTT GTTCTGTTAG AGAAATTTGT AGGTTTCTTT CATCTTTCTC 600
 TTCACGTGTT CGAACACGT AATCTTTCTT TTCTAATTC TTTAGTAATG GkGTCAGTGT 660
 TCCAGAATCT AAGAACACAC GTTCACCTAA TTTTGTGATG TTAAGTTTTT CATCATTTTC 720
 40 AATCGCCAAT TAAACCAAGG TAnCnGG 747

(2) INFORMATION FOR SEQ ID NO: 974:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 257 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 974:

TGCTTCCAAG TAATGTGGAC ATTTAATACG AGCTGGGATT GAGATACACC TTGCAATGCT 60

TCTTGGRCAT TTGCATTGCT TCTCCCAAGT GAATGCCTTT AACAGCTTGT GTCATCATCG 180
 ATGACTTGCC ATTGAAATCG ACAACCTTCA CCTTCAAACCT TAGCATCTTT TATAATGCCG 240
 5 nCTTCTATAT CAAATGT 257

(2) INFORMATION FOR SEQ ID NO: 975:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 451 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 975:

CAATGGAGCA TATTTTACGT TCGGCAATGG ACATTGATCA nACAACAAAA CATTATATAA 60
 20 mTAATAAAGT AGAAGTTATC AAAGAAATTA TTAaaaaAGT AAGAGGGGGA AATCACGTGA 120
 CATCAAAAA TCCAGAAGTT AATTACGAAG CATTAGCTAA ATATGGCCGC GACTTAGTAG 180
 AAGAAGTTAG ACAAGGTAAA ATGATCCTG TTATAGGAAG AGATGAAGAA ATTGGAATAA 240
 25 CGATTGCTAT TTAAAGTCGT AAAACTAAAA ACAACCTGT GCTCATTGGT GAACCAAGGTG 300
 TTGGTAAAAC TGCAATTGTT GAAGGATTAG CGCAACGTAT AGTTAAGAAA GATGTGCCAG 360
 AATCATTATT AGATAAAACT GTTTTGTAGT TAGATTTAAG CGCATTAGTA GCGGGCGCTA 420
 30 AATATCGTGG TGAATTGAA GAGAGATTAA A 451

(2) INFORMATION FOR SEQ ID NO: 976:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 571 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 976:

AACTATTAAT AATATTAAGT TCACTACAGA TGTTGCTAAT GGACCATAAG TTTTAAAGAC 60
 45 ATCTTCACCT ITATAACCAA CAATCGCATC TAAAAATTGA ACTAAGATCA TTGCAATGGA 120
 TATAGTTATC AAAAATATAG CACTATGAAT GACTAAAGAA AnAATAGCTA ATAAAAATAA 180
 AGGTAAAGCTT CGACTAAGTG CATAATATGC ATTTATATTA TGGCTAGATG CACATGCTTG 240
 50 AATTGAATAA CCTAAACTTA CACTGGCACT GATTATTGTA AATATTGCTA AAACAAAAATA 300
 CATGTTAATC CTCTCTTCTA TATTTGATA TAAACAAGTA CTGTCTCTAAA GTTATTTAAA 360

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TATAACTATG TCATAAACTG AATTGTGTA AATTTTTCAT TATGCAAAT TATTATAAC 480
 AAACAGCTCG AACTATAGCA TCATTTTACT AATGAATGCA TTAAAGTAAC TATGACTAAA 540
 5 AATGCATATT AATTATCATT ATTAAGACTA T 571

(2) INFORMATION FOR SEQ ID NO: 977:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 274 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 977:

CCCGAAAAA TTTAGACATT TTCAACAGT AACATTGAA GATTGTGCTA AGCTGGAAAA 60
 20 GAGTAGTATG CCATCAGGGG TCGGTATATT AGGCTATGCT GTTGACAAAG GTGTGCTTT 120
 AAACAAGGGG CGCATTGGTG CAAAAGAAGG ACCAGATCGG ATTAACAAGG CATTGTCAGG 180
 TTGGCCGGAT TTGAATCCAT GTGACTTTA GTCnGATTAC CGGAATGTTT ATCTGGTCA 240
 25 TGGGGGAATT AATTGGATAC CCCAAAAAGG AATT 274

(2) INFORMATION FOR SEQ ID NO: 978:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 877 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 978:

nTnTACTTC TTCTTTAAT ATTCTCGTA TAGCTTCAA TTTTCACTG TCAAACAGTG 60
 40 TTCTTAATAT CCCTTGCTT TCACGACTGT TTGATATTAA AAAGCGTTG AATTACCTT 120
 GAGGCAAAAT AAACAATTGT CGGAATTGAT CTGCATTAC TCCTAATAAT TCAATAATGA 180
 45 ATTGGGTACC TGAATTACT TTACTTTCTC TAATTTCATA CTTGCCATCC ACCATCTCAA 240
 ATaCATCAA TTTAGCGTTC GTTTTTGTG TATTACCTTC TTGATATAA GGGCCTGTG 300
 TATGCATTTT ATAAATTCGA TGATTTAATT GAAATCAA TGTACTGAC ATCGGCTGTT 360
 50 TACCATCAGC GAAATGACTT CTCAAATCAT TTTCTCTCT TGTTCAGTT GATGCTTTAC 420
 CAACAAGGC ATAAAGTCATT GCATCAAAA TCATTGTTT ACCCGATCCA GTCTTACCAC 480
 TTATTAAAA CAATTCATTA TTATCAATT TAGAAAAATC AATTCTTCT TTTAAAAAGG 540

CGTTTCTAA AATATTTTT ATCTTTTATG ATGGATATC CgATAATTCT TTATCAGTTA 660
 TATGTTTATA AAACATTTCg ATAATTGACA TGTCATCTTT TTCACTTATT TCyATAGCAT 720
 5 TATTTTCTTC ATnGTAATTA AAAGTTTCAT TCGTCAGCGC TAAAGTATTA GGATAAATn 780
 GTTTTAAACT CATCATTTGA TCAgTAATAT GAGACATATT TTTAAGTTTA AAATGTAAAA 840
 TAATATCGT TATnTTTCAC ATGAACtTnT TCATTAA 877

10 (2) INFORMATION FOR SEQ ID NO: 979:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 624 base pairs
 (B) TYPE: nucleic acid
 15 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 979:

ATTGGTACTA TACCATTTGT CCATTTTAGC GAAGACGTTA AACTATCGAT TAGCTAGTGA 60
 AGAAATTAAT CTCACTATAC CTTCTATACA TAAGCAAATT AAAAATTTAG AACAGCATCT 120
 25 CAATGTGAAA CTATTTGAAA CTTATAAAAA TCAAATTATC TTGACTGAAG ATGGTCATAC 180
 ATTTCTTCCA ATTGCGCAAA GTTTTATTGA ACAATATGAA AGTGGCATCA AACATATCCA 240
 ACTTAAAAAA ACGATGTTTC AATCGAAATT AAATGTTGTC GTGTCTTCAT ATATCGCGAC 300
 30 ATTCATTATG CCCAAATTTT TAAATCTTTT CTTTAACGAG CATCCTTTTA TCGATGTTTC 360
 TCTTCATGTC AAAAATGAAA ATATTGAAAA AGATATTAAT AATCATACGT ATGACATCGG 420
 GATTAGCAGA AATCAACCTA AACTAAGAGA AGTTCATTCT GAAAAAGTAT GCGAAGGTAA 480
 35 AATTGTATTG ATTGCTCCCA ATAAGAGAAA TAATCATCTT CTAAGCTGAGG CATCTTTATT 540
 TGAAAAATAC AAAATAATAA GTGATAACCA TCCAGAATAT TGGGTCATCA CTTAAAAATA 600
 40 ATATTTTAAA TATTTATGAA AAAG 624

(2) INFORMATION FOR SEQ ID NO: 980:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 457 base pairs
 45 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 980:

TTTGTCCTGT TGCATAAACT GCAGCTAGCA TAATGTTAAT TGTTGCACCT ACGCTAACCA 60
 55

TkGATTTCATC AATTTCAGCA CCTAAAGCTT TAAATCCTTT AATATGTTGA TCAATTGGAC 180
 GTGGCCCAAG TGGACATCCT CCGGGTAAAC CAATCACACA TTTTAAAT CTACCTAACA 240
 5 TGGCACCCAT CATATAGTAT GAAGCACGTA ATGATTCAAC TTTATTATT GGAATGCAG 300
 CATTTTGCAAT TTCAGTTGTA TCAACTTCTA AwTCCGTACC ATTtaSTGaw GcCTTAAaAe 360
 TTAACcCkC LAALAAACTC aCTAAGTTT TAACATCAGA GATTThGCGS TAACCCCTCT 420
 10 AATTTCACAT GTCTTGAGC TAATAATGTT GCAGGAA 457

(2) INFORMATION FOR SEQ ID NO: 981:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 997 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 981:

ATTCAGCAA CGCCCCCTGT AAAACTACGT ACTCTTACAT TTATGAAACC TGCTCTTCA 60
 25 AACATGCGCT TCAACTCTTC TTTTCCAGGA AAATTAAAGC TAGATTGCTG TAACCATTCA 120
 TATTCTCTT TTGATTTCG AAATAATTTT CCAAAAATAG GCATAACAAA TTTAAAGTAT 180
 AGTGCATACA TTTGTTTAAA GACTGGCAA GTTGTTGGC TCGTTTCAAG ACATACCACC 240
 30 ATACCACCTG GTTTAAGTAC TCTATTCAAT TyTTTTaAG CGACTAAATA GTCTGGCACA 300
 TTTCTTAATC CAAACCAAT TGTACATAA TCAAAAGAAAT TGTCTTCAA CGGCAATTCC 360
 35 ATTGCATCAC CATGAACAAG TTTAACATTT TCCATTGAAG CAGTTTTTTC TTTTCTACT 420
 TCTAACATAT TCTCACTAAA GTCAATACCA GTAACTTCAC CTGTTGCTCC TACAGCTTTG 480
 CTTAATGCGA TTGTCCAATC ACCAGTACCA CAACAAACAT CTAATGCTTT CGTCCCTTT 540
 40 CTAACACCCA TGCTTTTCAT GACGCGTTTT CTCCATACCT TATGCTGCTC AAACTAATA 600
 ATATTATTTA ATCTATCATA TTTTTTTGAA ATATTTTGAA AAACGCGATG TACTTGCTCT 660
 TTATTGCTT TAATTGTCAGC CATGCTTAAT TACCTCTACT TTTTAAATA CTTTTTTGGA 720
 45 TATCGTGTA GTAAAGCTTT ACTTCATTT GATTATATTT CTGAAGTAT GATGGATAGT 780
 AATCAGACAT ATCTTCAAAAT AAATAATTAT ATATTCCGA CTCATCAATA TTGATACCGA 840
 AATGAGATAA CGTAALATAT GGGAAAAGTG tTCAATTTT TACTATTGCT TGAGAAATTT 900
 50 CATAATCATT TAAAGCTTGA TGATGTAATG AAGATTTCAA TTCATTAAAT TCAACAATTG 960
 CTTTACTAAT TTCATTTTGA AATGATAAAT CATTGAT 997

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 982:

10	CATTCCCTTT ATCGGACAA TTATTTTAAA TAATTGGTTA ATAACTTTT CTATTAAATG	60
	CTGTTTACT TTCTAGAGCA ACAATAAATG TTTTCAGTT AAAATAATTA AGATTGTCAT	120
15	TTACTAATT GCTTTTCCA TTCTTTAACC ATAAATCAAC TTGTAATTGC CACTCAATAG	180
	GATGATTTT AATATAAATT TGCTCTGGAA AAATATAACC ATAATTGTGC ACTACTTCTT	240
	GATCAGTTAA CTGTAATTGA TACATTGCAC TTAAGTGGG TTCTAAACAA GAATTTTGCC	300
20	AGCGACAATA TTGATATAT TGATTAATTG CGAACTTTGA TAATTTATAA ACAGCATGAT	360
	AATCACAAG CGCCTCATTA ACAACTCAC TAATTTTGGC ATTTCTTTT TCAGCGACAT	420
	ATTTGTGCC GCCTAAATAT TGTATTTGTT GAAACATCAT TATTGTTTT TTCTCTAAAT	480
25	TGAACGTATG AAGTTTTCGA GTGAATGGAT TAATAAACAT ACTTTGAAAA TGATTGAACT	540
	TCACTTTATT ATGACAATAA TCAACATCAT TTAAATAACCA ACTTACTTTA TATCCCATTT	600
	TCCTKAAACC TTCCGTCGT TGAAGAATCT GTTTATAAGG AATTGGCGAA TACTGTAGCT	660
30	CAATAACATA TTTATTATTA ATCAAAATAT CCGGAATTG TTTATTCTT TTTAAAAATG	720
	GCTCTATCTC TACTTTACAT CCTTGTGCT GTATCATCTG TGCTAAATC AATTACTTT	780
35	TATAATGTTT AATCGTTTCA TTATTAAAC ATTTTGTTC CGCTAAATG TTATGTGCAA	840
	AATGACTAAT TACTTTGAGC CCACGCTTA AAATAACTTG CTGCCCACAC ACCGGACAAA	900
	AATATTGTGT CTTTCTCAAT GCAGTAGTTG CTAATACGGC TTCTTTTCT TCATTTAAAG	960
40	CTACTAACAT ATCTTCACCT CAAAATATTA CACGTAAGTT TAACTACTAT TACTTTTCA	1020
	GCTTTGGAAA TCCATTAAAA AAAAGGGACC CCCAAGGAG GCCTCCTTTC ATAGTGCGG	1080
45	TGGCCTAATT AAATAATCCG TTAATTCAG GTGGnChC	1118

(2) INFORMATION FOR SEQ ID NO: 983:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 269 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

CATCCCCGTG TAAAAATTGn TATTGTGTA TTGATGCTTC TCAGnCATTA TTACGAGTCC 60
 ATATTCATTG CTTCAGTGAA ATATCAGTAG CAATAACATT TAAATCCGGC TTTTCACATT 120
 TCAAGGTAAT TGCAGTACAC CACTACCCGT TTCCGATATC TACGGATTGT TGCATCATCT 180
 TCTAACTGTT GGTAAGAAAT GCAACCATTA CTGCTTCAGT TTCAGGTCGT GTATCAAACA 240
 ATTTGAGTTT ACATCAAACG GTCTACCTT 269

(2) INFORMATION FOR SEQ ID NO: 984:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 984:

AACCCCAAGTG GAAnnGGTTT TGGTGGAAAA ATTTTAGGTC CTTTATCTGT CGTGCGAATC 60
 ATTGTATTTT TTAACCTTC CGCATAATCT TGATGGTCGA TTAACCTTTC GCGATAACAA 120
 TATTCAATCA CTCAGAAAT CGCTTGCTCT GATATCTCTT CTTTGTGTA ATATTGTATA 180
 ACTTCTTTT CAGTCTCTT TTTATATGAT AAATATTGGA TTGCTTTATT TAAACCTATG 240
 CGATAATGAT CATACTTTG AATCTCTGCC ATGTCAGCAG CnTCAAGTTG TnGCCCTT 298

(2) INFORMATION FOR SEQ ID NO: 985:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 431 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 985:

CCATGCGATT CCACCTATTA ATAGTAAGAC AATAATAATA GGAATTATAA TTTTAACTT 60
 TTTAGACATT TTGCTTCCTC CCAATTATTT ATGAGTTAAT CATATCAGAA CAATACATTT 120
 TATTAAATGG TTTATTTTAA ATTTTGTTTA AATTAATAGA ATTTTAGTTA TAATAATGTT 180
 TAATAAGTTA TTGGrAATCy AATAAACTAC mAAAAATAGT TTGATTAcAt AATGATTctT 240
 GAAAAATGKT GGKtAACyTA ATAATATGCA TTTTTTkgGC GArGArGATT tATTtAACyT 300
 ATAAAAATAT KGAaGTAAGA TtGGGGAGAT tATGAATTtA TGrAttGAA AGTCGATGAT 360
 TTTGTAAAGA ATATAAAAAAG ACCATACCTG ACTGTATTGG GAGTATTtGT AGTTCGAGTT 420

(2) INFORMATION FOR SEQ ID NO: 986:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 329 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 986:

AAGGTTAGGn	TGGAGTACCC	AAAGTAGGTT	TTAAAGGTTG	GAAATACnAG	GAGGATGAAT	60
AACATGAATC	AGTCAGTCAA	ATTACTTAAA	CATTTAACAG	ATGTAACGG	CATTGCTGGT	120
TATGAAATGC	AAGTTAAAGA	AGCAATGCGT	AACTATATAG	AGCCTGTCAG	TGATCAAATT	180
ATTGAAGATA	ACTTGGTGGC	ATTTTGGAA	AGAAAAATGC	TGAGAATGGT	CAATACTCAT	240
TATGATTCTC	GGTCTATGGA	TGAAGTGGTT	ATGGTAACAA	GATGTAAACT	GTTATTTCATT	300
ACGCGTGGTG	TGTGATCAGC	nGCACTCAA				329

(2) INFORMATION FOR SEQ ID NO: 987:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 545 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 987:

CATATTATTT	nTATATGAGT	TTACCAGTGT	CAAAAAAACA	ATTGCTTAAT	GCCAACTATA	60
TTACATGCAT	TGTTTAAACA	TTAATTGGAA	CGCTTGTTAT	TAGTTTATAT	GCITATGAAG	120
CAGATGTGAT	TGAACCAAA	TCAATCTATT	TTTCAACTGC	ATATGCATT	GTCTATCTTA	180
ACTTCTTGTC	TATACCAATT	GCATTTAGTC	AATTTACAGA	ATTGCGTAGA	GTCAAAGTGC	240
CATATGGTAT	ATACGTGTTT	ACTATTATCA	TTTTAGTTCC	ATTTTTATTT	TCAATTGCAA	300
TAGTATTGGT	GAATTATTTT	GTTCTAAGTC	AATCATCATT	CCCAGATTTA	TATTCATATA	360
TTTTAAATAT	TGGTTTCTTA	ATTATAAGCA	TGTTTATACT	TATTGTTAA	TATTTTAAAC	420
AGCTCAATAA	AATAAATACT	AGAAAAATTA	AAGGAGGCAG	TCCATGAAAT	TAGAACATAT	480
TACAAAAAAA	TACGCTCAA	ATGTCGTTT	AAATGATATI	GATTTTGACT	TTGGCGAnAG	540
TAGAA						545

(2) INFORMATION FOR SEQ ID NO: 988:

(A) LENGTH: 607 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 988:

10	ACCTAGCATG ACATAATCAA ATATATCAAA AACACCTTTC TGAACGTATT CAACCGTTCC	60
	AATAGTTAAT GGTCTTTTCAG AATCAGATGT CTTTCCACCT TGAACAGTCA GATGACTAAT	120
	TAAAAATATT ACGGCATCTT CATCAATTTC CGGTGCTATT GTTCAATAC AGCGCGTAAT	180
15	TCCTGTGTGA TGTGTTTCAA TGGTGTCTAT TTCAAAGTAG TGTTCATTT CGCTCACAGT	240
	AGCATAAGGG AGTGATATAA AATTAAACCC ATTATCTCT ATTGGTGAAT TAATCGATGT	300
	AAAATCTGTT CTATATAATA ACTGATTATG TTCAAACCAA CTCGCCCAT AGTTTAACTT	360
20	CTCTTTACCA TCGTGATTTC CACTAATAAT AATTATTGGT ATACGCAGTT CTAAATTTAA	420
	CTTTCGAATC GCTTGTCTTA ATAACATGAT TGCATCTTTA CTGGATATG TTGTGTCATA	480
	TAAACTCCAG CTATACAAAT GtATCAGGT TCTTCTCTT TCATTTTTTC TACGAACATA	540
25	TCTAAAAATAT ACGCTTGaTC TTCTAAAAGC TGTTTGCCAT CTAATATTTT CCCTAAGTGC	600
	CAGTCTG	607

(2) INFORMATION FOR SEQ ID NO: 989:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 722 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 989:

40	ATCGCGTTAA GCAACAATTA CAACATCAT CATATAAGCT AACGCCACAA CGCGAACTAC	60
	TGTTAGAGTT CTAATTGAAA ATGAAAAAGA TCATCTAAGT GCTGAAGACG TATATCTGAA	120
	AGTAAAAGAT AAAGCGCCTG AAATTGGCTT GCGACAGTA TACAGAACGT TAGAGTTGTT	180
45	AGCTGAACTA AAAGTGTGCG ACAAATTTAA CTTTGGTGAT GCGTCGCTC GTTTTGATT	240
	AAGAAAAGAA GCGCAAAAC ATTTCCACCA TCATTTAGTA TGTATGGAAT GTGTCGTGT	300
	AGATGAAATC GATGAAGATT TGTTACCAGA AGTTGAAAA CGAGTTGAAA ATGAGTTCAA	360
50	TTTTAAATTT TTATGATCAT GTTTAACTTT CCATGGTGTG TGTGAAACGT GCCAAGCTAA	420
	AGGTAAAGGA TAGTAAATTG GSTAGGTAA ATTAACCTTC GCTTTTTTTA GAGGTGTGGT	480

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TAACACAATT GGTGCTTATA GACGTGATT GAAAAAGTAT CAAGATTATA TGACTGAACA 600
 TCATATCTCG CATATTGATT TTATAGATCG ACAATTAATT CAAGAGTGTh TGGGGCATT 660
 5 AATAGACCAA GGGCAATCTG CTAATCTAT TCGCGGATT ATTCAACAA TCCGTAGITT 720
 TC 722

(2) INFORMATION FOR SEQ ID NO: 990:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 366 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 990:

20 ATCCAAAAA TACGAAGCG CTTCTATAT TGGTATGCAA GTATTCCAA AAGAATAAT 60
 TTAATTTTCC TACTTTTCTA AACATTTATC TTTATGTATA ATGTTTCAA GTAACATAAT 120
 TATAAATTAA ATAAAGGAG TGTTTATCAT GCTTACAATG GGCACGCAT TAAGTCAACA 180
 25 AGTAGATGCC AATTGGCAAA CTTATATTAT GATTGCCGTC TACTCTTGG GThATGACTC 240
 CAACTTATTG ATAGTGThT TATGTTTCAG ATAATGCCCG ATGACTTTGT CATGCCAGCT 300
 CCACCGATT TGAAGAACGA CAGCGACTTC CGTCCCAGC CGTGCCAGGT GCTGCCTCCA 360
 30 GTATTG 366

(2) INFORMATION FOR SEQ ID NO: 991:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 991:

40 TGACTACAGT AACATTACCT GTAAATAATG ATTGAATGGC TTCATTTTCA TCATGAATAC 60
 45 CTGTAATAAA TTCTAATTCT TCATCTGAAA CTTTACAAT ATGCGCCAAT GGCAAAAGG 120
 TATGAATAGT TTGCTTAA TCTTCAGCGT TATCCATAA TGGCAATCTT ACATTAGGAT 180
 CAAATACGAC AGTACCATT TGCATTAAAG TTTTGGTAAT CAATTGATAA TGTGCATCTC 240
 50 TCATCGGACT ATCGACCAA TCAACAGAAC AAAAATGTAC TACATCATTT TCATTACAT 300
 CaATATCATT CACAAAACK GgkTcaAaTA aCATATCh 338

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 371 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 992:

10	AGTTCATCGT ATTCTTAATA CCTATATGCT ATCGTTCACA AACTTTGTGT CTTTCTCTCC	60
	AACATACCGC CTATAATGCT CAAAGAAGAAA TCAGCAGTGG AACCACTACG TTCCTACCG	120
15	CTTTATCATT TTCAGGCTTA AATATTTTAA AAATTTGTGT AGGAATCCGC TTAAAAAACC	180
	TCATATCTTC AAAAAAATG ACAAATTTTA AATTTTGTAA TAACATCATT TTTTAGTAAA	240
	TGTTATAATT TCTTTATAAT ACAAATATCG AAAGAAGGCG ACTGACTTTG AAAAAATTAT	300
20	GTTCAATTAAT TGIAGGTAGC ATTAGTTTGT ATCCTTGCCA TTATCAGCTT GTGGnAAAGA	360
	ACnAACCNAA A	371

(2) INFORMATION FOR SEQ ID NO: 993:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 530 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 993:

35	ATAATGATTT ATCAATCGAT GTTAGATGCG GTTCAATTAT ATCCTAAGTC TATCGTGGTT	60
	GATTATACTG TGGATGGACA ATACA AAAAT GATTGTCACT ATTTCGGTCA ATCATGATC	120
	AACATTGCCG ATTGGGCTCA AAACAATAAT TATTATCCTA ACCTGATATA TGCGATTCAA	180
40	CAGACTCTTG ATTTAATACA TTATTACTCT GTAGAAACGA TTTTCGATTT AGCTTTATTG	240
	ACACTTCTGA AAGGTGATTT ATCAATCGAT GGTCAATGTC TTTTGTGATT TAAAGCCCCT	300
	ATAGCAACAA GTGCTTCAAT ATGGGAAACT ATTAAAACTA TTGAAGATTT TGATATGATG	360
45	TCCAGTTTtT TTGATAAAAG GCTTATATtG ATCATCATCC TATACCTTTT CGCAACCTTT	420
	TTATCGAGGA TTCAGAACAA CTTAATTCGC CAGATAATTG GTTGATTCTT ACCAAGTTTA	480
50	TGCTACCTAA ATGGGnTATA TAAATAAGC AAAGCAACGT GCTGATAACA	530

(2) INFORMATION FOR SEQ ID NO: 994:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 551 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 994:

TATTGGATTn TTnCCACCAA AGGCAACGGT TCCTTTTCTA ATTCTAATAA TCAATCCCC 60
 10 ATTAATATCA ATCCCACTCA AATCTTTTCA CATCATTTGAG TATAAAATAA TATGGTGATA 120
 TACGTTGAAG TTGATTnTCT TAITTAAGTA TACTCCAACA GTATTTTATA AAATATTTA 180
 GTCATCATCT TCAGTGTTTA ATTCAAAAAT ATAGAATCTA CTGTATTGCA TAATAAATTG 240
 15 AAATGCCACA AATGTGTGAC AAGCAATAAT AATGATACTT ACCATTATGA CAAACTTGGA 300
 TTCTACGACA TTGGGCACCA ATATATATTC GATAATTCTT TCAATATATA TAAATGCGCT 360
 CAACGCGGTT AATAATAAAC CGAAATGTGT TTTaGTTTTA CCACCCCAAC GTTTTGTyAC 420
 20 TTTAGTAAAT TTTAATAACG TGAACATTCC GCCAATTACT AATAACAAAT AACTAATTAT 480
 GATTGAAATC GTACCCATCA ACCAATAATT GAATAGGTCA TAATGATTTT GTACAGCAAC 540
 AAAATAATAA A 551

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(2) INFORMATION FOR SEQ ID NO: 995:

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 729 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 995:

ATTCGCCACC ATTAGGTAGT GGAACACGAA CTTCATCATC TAAACCTTTA CCAATTAACG 60
 CTTAGCCAT TGGTGATTCA TTTGAAATCT TACCATTAAA TGCATCTGAT TCAGCTGAAC 120
 40 CAACGATTGG ATAACCTTCC TCTTCATCAC CTGGTAATTC TACAAAGGTT ACTGTTTTAC 180
 CAATTTTAAC AACGTTGTTA TCTCCAGTAT CTTCAATGAT TAATGCATTT CTTAACATAT 240
 45 GCTCAATTCT TTGAATATCT TGTTCGATGA ATCCTTGTTC ATCTTTTGCT GCATCATACT 300
 CAGAGTTCTC TGATAAGTCA CCAATGAAC GTGCAACTTT AATTTCCTCT ACAACTTCAG 360
 GACGCTTAAC TGTTTTTAAT TCTTCAAGTT CACGCTCTAA TTTTTCAAAA CCTTCTTGAG 420
 50 TCATTGGATA TTGCTTTTGA TTTTCCATAT TGTCACTCTC CTTTACTGAA TTACTACTATT 480
 GCTTGCTAAC TAAAGACTGA ATTTTTGTGG TCATAATATC TATTGCAACT TTATTGCTCC 540
 CACCTTCAGG AATAATTATA TCAGCATATT TCTTAGTCGG TTCAATAAAT TGGTCATGCA 600

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TTAGTATCTC GTGTTGAAAC GCGTAATAT nCTCAAGTCT GGCATCTGTA TCAACATATA 720
TnTtnAACa 729

(2) INFORMATION FOR SEQ ID NO: 996:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 325 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 996:

GACAAATATA CTGCTTCTAC TCAAAATATTA GTGAACATGA AAAAGTCCTC AAGTGATTTA 60
GCTTTCCCAA AATGTTTCAA GTAGTTTGCA GTCTGTTAAT ACATATACGG AnATTATCAA 120
AAGTCCTAGA TTCTAGATAA AGTATCTAGA GAATTGATGG TCAGTATTCA ACAGCTGAGT 180
GAAATCATTT TAAAGTAAC CATCCAACCA ACTCTCAAAT TATTACTGTA CAGTTACACT 240
GGGATAATCT GATCTGACAA ATGTATAAAT ACTAAGTTTT GCCAGCAGCT AAATAGAGGT 300
GTATGTACGA CTTCcAnCTG TAGnG 325

(2) INFORMATION FOR SEQ ID NO: 997:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 271 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 997:

CTTCAGTTGT CGGCAAAITCT TCTATATTGG AAATACCAmA TACATTTAAA AATAAATCAG 60
TAGTAATTAA CTGTTGGCTA CGCTGTTCAT TAACCACTTT AGCCTCAACT AGTCCTTTGG 120
CAATCAATGT CTTAACTGCA CCATCTGAAT TGataCTACG AATTAAITCA ATATCACTTC 180
TTGATAATGG CTGGTTATAA GCAATAATTG gATAGTACTT CCATTGCTGC TTGTGataAT 240
TTCATTTTGG aCTTTTGTTC AATTGAATTG T 271

(2) INFORMATION FOR SEQ ID NO: 998:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 498 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 998:

1 TTTATGTGCT AATTGTGAAT TGAGATTCAT AATGGTATTT AAATCATTAT GGTGCGGGAG 60
 5 TTATGGTATT GCCATAATAT GAGAGTGCAT CCACTTCTAT AAGTAATGCA TATTGCGAGT 120
 GCAGGAATGA ATGAGTGCTT GATTAAAAATC CTTATGGGTG GTTGACATAA TTTAAAGAAA 180
 10 CCACATTTAA AATTTCCTAA TCACAAGCGG TTAAGTAGGT ATAGTTTAGT TTTGAGTAAA 240
 TCTTTTTTAA GGTGTACTTG TGCATTTTAC TTAATTAAAG ACATAAGACA TTTAATCGGC 300
 CTAATAATAA TAAAAAACTA CCTGTTTAGG TAGTTTTTTT AATGTAATAG ATTAACAACAC 360
 15 TAGTTCATTT CTTATTAAAG ATGATAGTAT ATTTTATAGA TAAATTGTCT CTTTAGTGTA 420
 GCGGTAATTT TTAGGACTTT TTGGTGGnAA AAATGTCTCT AATAAAAGTA ATAGTCTAC 480
 TTTACCGCCA AAGCCATA 498

(2) INFORMATION FOR SEQ ID NO: 999:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 568 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 25 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 999:

30 TGAGCTGGTT GTTATTATC ATCAGTTTTTCTCTGATTAT CATCTGATTT ATCTTGAGAT 60
 GCTTTGTCAT CCTTATCTTT CGACTCATCC TTTGATGCTT TATCATCATT CTCTCTTTA 120
 35 GCAGGACGTT GCTTTGTAGG TGCTTGTGTC TGAGGTGGCA CATATTGATA TTGATTCTGC 180
 TGTGGCAATT GCTGATATTG GTTTGCTTGT GAATCTAGCT CATCTGCTC TTTTCTCTCT 240
 TGTTGCTTTT TCCTCTCTC TTTTCTGCA TTTCTTTTT GACGCTTTTC TTTTGTTC 300
 40 TGCTTTTGTG CGTTCACAT ACGTCTTTTA GCTTTATTCT AATGATCTAC ATATGCAAAA 360
 ATTGCAATA CTAATCTCC GAGTAATAGC AATACCGTCG CAATGCTAAC TACTTTCGCT 420
 GTGTACTCA TTTTCTCTT ACTTCCATCT TCATTTTAT TGTAGTCGTA ATTTTGATTC 480
 45 GACATCTCT CCCTCACTC AACTAATTT AAATATAGAA ATTATCAGC AaCATTAAC 540
 AATTTCACAA CTAATTTCG ACnAGTA 568

(2) INFORMATION FOR SEQ ID NO: 1000:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1441 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1000:

5 AGTGTCTTCTA ATTGCAAAAT TCCAAATACA GTGTCGTTAT TTACTTTTTT CATGCTAAAC 60
 ATCTCCCAAT TAATAATCAC ATATTAGCT ACTATACAAG TATTAACAAA CATCCCAACA 120
 ATCCCAAAAC TTGTATGTGC TAACCTATGC ATAAAACCTAC AAGTGTAAT AAACCTGCTT 180
 10 TCTATTCAAT TGTCAAAGTT GAATAAAATT AAATAAGTAT AAAACCAAT AATCAATAGA 240
 GTTAATATTT AGAAATAAGA TAATAGTACA TAAAACAAAT CACTCTATTA CATATTAATT 300
 TTATAATTTA TATACAAAGA AAATATATCA ATATTACCAT TAAATTGCAA CAATTCTACA 360
 15 TATAATTCCT CAAAAAGAT ACGCATTGAA TTTTATTAC ATATAACTCT CATGAAAAAT 420
 GATTAACTA AATTAATTAG TTAGCCTTAA ATTTAACAAA TTAATCAAA CCGAATGAGG 480
 CTAAATGGT TATTTTTCAT GATATGATT GTATAAATCA AAACATTCT TACAAATCAA 540
 20 ATGTGTATAA AATGTGATAT ACATTTTCAA CCTTAAAAA GTTCTAAAAA AAGATGAGCA 600
 TCTACTGTCT CATCTTTCAG TCTTTTTTA CGGGTCTGTT TTCTAATTG AGCACAATCT 660
 TCGATTTCTT TATCTAAATG ACTACCAATT AAATCTATTT CTCTATTGT TAAATCGCTA 720
 25 TCTCCATCTT CTTTTATCTC TGGTATTATT TTTCTTCAA CTAAGTCACG ATATAGTGTT 780
 TTGAATCTT CGTCAATTG CGATTCGTGA TTTGAATAC TTTCTCCGC ACCAATGTAT 840
 ATCTATTGGC ACTAGCTTCT ACTTTGTAC CATCAATAA AATTGAATTA TCATCAATAA 900
 30 GATTTTGCTT TAAACATTGA CTATAGAACT GAATAAATAA AGATTCAATT AACGCATCAG 960
 TATTAGGATT CACTCTAAAA CGATTAAATG TTTTATAAGA AAGTGTTGA TCTTGGGCTA 1020
 ACCACATCAT TCGAATCTG TCATGAAGTA ATTTCTCTAT TCTACGACCA GAAATACAG 1080
 35 ATTGAGTATA TGCATATAAG ATGATTTTCA ACATCATTTT TGGATGATAG GATGTTGCAC 1140
 CACGATGATG TCTGAATCA TCGAATTCG TATCAGGTAT CGTTCAACA ATTTCAATTA 1200
 40 CATATCGCGA AATATCATTT TGAGGAATTC TAACGAAGTT TCTATTGGTA GTGTAAGTTG 1260
 GGGTCATGTT ATAATTTTCA TACATAAGGC ACCTCTTAA TTTAGTTTAT TAGTATTTAT 1320
 TAAATTATAC GaAGGGACCC AACACAGAAA ATTCATTTTA TTGAATTTA CATTTATGTG 1380
 45 CAAGTTGGGG AAAAATGTCT TATTTTTCAT AAGTATTTAA AAGTAAATT ACATGTTAAT 1440
 A 1441

(2) INFORMATION FOR SEQ ID NO: 1001:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 587 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1001:

TAATAATATC	TGTCATAITA	AGTCTCCCTC	ATTAGAACTC	ATTATAAATG	AAGTTATTGT	60
GTGTGTCGCC	ACTGCCATAA	ATTAAATATA	AAGTAATAAA	TATTGCCAAA	TACAATAGTG	120
TTAATAAATA	TGGTTTGAAT	GCTTCAACAT	ATTTATTAGG	TGGCTGTTTA	CTTTTAGATT	180
TCATAATGCA	CCTCTAAAG	TTCTTAGTAA	AAACGCCCTT	ATAAAGACCG	TTCAATATAA	240
AATACGTTTT	AAAATTTGTT	TTTTACAATT	CATTATATCG	ATATTCATAA	TGAAATCAA	300
TTTTAATTTT	ATAGATTCAA	CATAGTAATT	GGTTGTCATC	ACTCAAKTAT	TGTAAATGAT	360
ACACTTTGTT	GAGACATCA	TTCAATTTAA	AGGTATTATTA	AACAATAAAC	AATTACAGTC	420
TATATAACAA	TTTTGTTATA	TACGTCAAAA	TCAAATAAAC	TCATCACATT	AATATGACGA	480
GTTTATAATG	TTATTGAATT	ATCATCAGCG	CAAATATATA	CATTGCAAG	TCAAGCATAA	540
CATATTTAAC	AATTGCTTTG	CTTGGTTTTA	CCAATGGATT	AAAAACC		587

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(2) INFORMATION FOR SEQ ID NO: 1002:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 522 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1002:

CAATTGTGTC	ATAATTTTGC	TGATGATAAC	TAATCGTTTT	GGAGTAGCTA	TTTGATGAAG	60
TTCTGCCAAT	ACCTTTTGT	GAATCGAATT	TACCACCTGA	CGGTATATGA	AAATGTACTG	120
TCTACTTTTG	CAGITGAAAT	TTTATTTTTC	GGCAATTGGT	CTAATATTTT	AGTTTACGA	180
TTTCTTTTTA	CTTGAAAATC	TACATGGTAC	TCACTTGGAT	ACTTTAACCA	ATTTGAATTT	240
TTTTCTTCTT	TATGAGATTC	AAACTTTAAA	TTTGAATGAA	TTGAGCCTTG	TTTTTTAACA	300
AGTAATACAT	TCTTGTGATA	AGTTGGATCA	TCGATAAAGT	CGAATTGTAA	ATTTTGGAGT	360
ATATTGTTT	TCTCATCATA	TACTGTTTCA	GTTGCTTTTG	TGATTTTACC	GTTTTTCCCA	420
ATATCATCCG	GTGCTGTGTA	ATTTTATCT	TTATTAGTAA	CATTACGTTG	CTTTTGTGAn	480
CTTATCAACA	TGCTTCTAT	TTGGCTGAnG	CTTATGGnGA	TT		522

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(2) INFORMATION FOR SEQ ID NO: 1003:

(A) LENGTH: 323 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1003:

10 TCTTTGTTTG AGACATAATG TCATGTAAAG TTTTCACAAT GCGTTCTTCA ACTTGTGGCC 60
 TTGCCTCTCC TTTGAAAGGA ACAATTGAT CTCCGAATAA GTCCCTCAGGC TTGTATAGAT 120
 TATCAAATAG ATAGACTGAC TCACCTTCAA ATATTCCAAA ATGCCATTCC TTCAGTCCCT 180
 15 TAAAACGTTG ATACGATTGG WTAGGTGCAA CATTTTCAAG TGTGTCACIT GCGCGTCTCT 240
 GCGTGTGATGA TGCATATAAA TCGAAGTTTA TCCCTTAGT TTCATAATAA CTACGTGCCT 300
 TThGAGCTTG AGCAATTCCA AGT 323

20 (2) INFORMATION FOR SEQ ID NO: 1004:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 320 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1004:

30 TTCTAACTTG ACGTGACTGG GCATTTCTGT GnaAAATnTTC TGACATTCTT TTTAATATCC 60
 GCAACGCAAT TGCCTCAGTT AAAGATTGna ACTTGCAACA TTATTGGTA CGAAAAAGTC 120
 35 AGTTTAAAG TCGATATAAG ATTTATTTTT TTGTTATAT AGTTTCGCAA CTACATTGG 180
 TTGCTTACT TGATCATATT TTGCAACCGT ATCGAATGCC GTCTTTTCAA ACAGCTTTAC 240
 GAGATACGTA AACCATGACC CATCCATCGA AGTCCTTGGT AAAAACCCAG GGTTCGGAA 300
 40 GCGTAGGGT TTGAAAGATA 320

(2) INFORMATION FOR SEQ ID NO: 1005:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 305 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1005:

naTTAATGCT AGCAAAAACA GantTGCAan ATGTAAAGAC ATGTGAAACC CTCCTTATAT 60

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CGATATTTAT AAAAAATAAT ATTTCACTTA ACCAGTITTT AGTATCATT GCAATGGTAA 180
 AGGATACGAT GAGTATCACA CCACAAATGA TAATACCAGG CAGGAGCCAA CATAAATCAT 240
 5 CTAAATCTTT ATTATATGTG ATTAATAATAT TAAAGATAAC AAAAGTGGTA GTAATAACTA 300
 TATTG 305

(2) INFORMATION FOR SEQ ID NO: 1006:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1006:

20 TTCAAGATAT CAGTATAAAT AAAAAGCTAA TATGCTCATT ATAGACAGCT ATAACATATAT 60
 TTCTCTGCTCC CACTCTATAG AAATCAATTT CATTIATTAC CATTTTCTCT ATTTAAAAAC 120
 ATATTTTTGG TATTAACAAT TAAAAGTGGG TATATATATT TAATGAACCA ATTTTTTAGG 180
 25 AAAGTAGGGC TAAACCTATG GAAAATAAAT TATACCACAT GGTGTCTCT TTTACCATGA 240
 ACACAGTGAA TTAATAAATA TTAACCAAGG TATTGGGGAA GTACACCAG CATTAGGTCC 300
 AATTGGTAGC CACCTTCCAA TCCATTGGGG GAA 334

30 (2) INFORMATION FOR SEQ ID NO: 1007:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 565 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 35 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1007:

40 AGAAAAATTG TTATATTAGA AGCGAATAAT TTTAAACAT ATTATGAAAT GTAAGAAGAA 60
 ATATTATGAA ACTAGAAAA GTAGATTGTT GAAAATTCCA TACAATAGGn GAnGTAAAGT 120
 45 GAATAAATTC TGGTATTACT AAAGCTATTG ATTGCTCTAA TTGTAATAAA AAGTGGATA 180
 GTGTAGTTGA GGGGAGAAAA ACTAAATGC AAAAATATAT TCTCAATGGA TCATTATAAA 240
 TACCAATTAG aTTAAAGTAT TGCGaACATT TACAATTAGA AATCAGTATT AATCTGCCAT 300
 50 AGATAATTGT ATTAATGTAA AAmATAAAAT AGAATGAGAA TATACGGAAA TTTTTTATAC 360
 ATTTATAACC AATTCTGTTA AACTGTGAAG AGTAGAGTTA AAAACGAACT TTTTGTTTAT 420

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AATGATTGAA CGCTATTCTA GAGAAGAAAT GTCTAATATT TGGACTGATC AAAATCGCTA 540
TGAAGCCATG GTTAGAAGTG GAAAT 565

5 (2) INFORMATION FOR SEQ ID NO: 1008:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 400 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1008:

15 CAACATTAGC GTCTAAACAA ATCTTTGACT AAACGTTTAC TTGAGCGACC ATCTTGATAT 60
TTAAAATGTT TATCTAAGAA TGGCACAAC TTTTCAACCT CATATCTTC ATTGTCACAA 120
GCATCCATTAT ATGCATCAAA GGACTGTACA ATTTTACCTG GAACAAATGA TTCAAATGGT 180
TCATAGAAAT CACGCGTCGT AATGTAATCT TCTAAGTCAA ATGCATAGAA AATCATCGGC 240
TTTTTAAATA CTGCATATTC ATATATTAAA GATGAATAAT CACTAATCAA CAAGCTGTGA 300
25 ACAAAGAGAA TATCGTTAAC TTCACGATGA TCTGACACAT CGATAAAGTA TyGTsTATGT 360
TCACGTGAAA TyyAAGTCy ATTtTTTACG AaCGGATGCA 400

(2) INFORMATION FOR SEQ ID NO: 1009:

30 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 454 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1009:

TATGTAAAA ACTGTGGTTC TTACAATGGC GAAGAAGTAG CAGCTAAATA ATTTTAGTTA 60
40 CTCAATATAA AAaGTCCCGC TTAAAATGAT TGTTTTAAAG GGGACTTTTT ATATTGCGAA 120
AAATAATTGG cGAACGAGGT AACTGGATAC CTCATCCGCC AATTAAAATT TGTTAATTTA 180
45 ATAATTAAAT ATAAGACGA TTTATTAGTT TTTACGTTTT CTAGGTAATA CGAATGCAAC 240
GATGCTACTT AAAGCTAATA ATGCCATTAA TGSTAATGTC ATATCTnTAT TTGATTCTTC 300
ACAGATTGTG GtTAATGATT TTGCTTTATT TTCTTGTA TTTGATTGT TTTGGCTTTG 360
50 GAGTGTGTCC ATCATTTGTG TTTTAAATGT TTGCTnTnG TAATGGAGCA CTAATCTTTT 420
GCCTGCTAGT AACCTGCCGG AGGTTTGGAA CCAC 454

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1010:

GGTACAACAA CTTTAGACAA TGAAATATTA AAAGATACGG ATGATAAAAA GTCGAGTAAA 60
 ACTTTTGTGG GCGGAACAAA AGTTGATGAC CAACATGCTA GTATCGGAAT GGATTTTGAA 120
 AATCAGGACA AAACTTTAACT TGCCAAAAAA TCATATTTC AATTAAACGA TAAATTTGTC 180
 TTCTTAGGAA CTGGCATTAA AAGTACTGAT TCATCAAAGG ATCCCGATTA CCAACCGATG 240
 AAAATCCGCA AGCCGATGGG GAATACGGTA TTITCCGGCC GTTAACCAAC CACCCATTCC 300
 GGITATCCGG GAAACCATTC CATCCTTTTA GGAGnChCCG GTnCCnAAAA GGACCTCGGG 360
 TATCCTTTTT TTAACCAACC CGAAATTACT GGTAATAAAG 400

(2) INFORMATION FOR SEQ ID NO: 1011:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1011:

TTAGGTATTC GCAAAATATGA TCTTCAATAT ATAGCTATGG CCAAAAGATG GGCTAAAGCT 60
 TATACAATTA CTGTAGCACT GGGAGTTGTT ACAGGTACAA TTATAGGACT TCAATTATCA 120
 TGATTTGGCC TACATTATG GAAATGGGTG GACACGTATT GCACTTCCCT TATTATGGGA 180
 ACATTGCGGT CTCTTGAGC TATTCTTAA GTATATATTA TATACTGGGA TCGTTTAAAA 240
 TAATGGCACA TTCTTAATAG TATACAGTA ATTATGGGGC CTTCTCAGCA TCTCATACTC 300
 AGGAATCATT ATGAATACGC CTGCAGGTTT GAGTGAAGAT GGAAGTGGCC ATGTACACnT 360
 AGAGCGTGTT ACCCAGGTTA AGTCGTCAAT nCGAATACAC 400

(2) INFORMATION FOR SEQ ID NO: 1012:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1012:

CTTTATGGGA TACACTACAA ATCGAGACTA TAAGGTTTTT TATTTTATTT ATTATTACAT 60
 5 TATCAATAGT TTTATAATCG AGCTTCAAAA CTTTAGAAAA TAGTAGAAAT AGCATTC AAT 120
 ATAGTGC AAA AGTGCAAAIT GATAACTTGA CACTATCTC CTATAAACCG TACAATT AAT 180
 TTGTATGATT TATATATAAT TTCATAAAGT CATATTGAAT TTCATATAAA GAGCAAAACCC 240
 10 TAGAAAA nGA GGTGTTGTGG AATTATTAAG CTCCTACTCA TTTCGCGGGT CATCTAGGGT 300
 GTGGAGGATG TGTGCCGAAT TGTGCTCAAA nATCCAGCA GCAACGCGAG TTGAACAGCC 360
 TAAGACGCAA CAAAGGATCT GnnAAGGACC ATCAGGCACG 400

(2) INFORMATION FOR SEQ ID NO: 1013:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 353 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1013:

GTCGTGCTG ATACCACGCC AGTATTGGTT TTAAATGATA AAAAAATCTG TGAGATTGCA 60
 TCATTGAGAC AAACATCGCT ATTTGAAATG GCCGAATATA TAGGGTTTAG CGAGCCACAG 120
 30 AAATTAGTAC AATTATTTAT TAACCATGAT AGGAAGGTGA GACGCCAATG AATCAATATA 180
 ATACTATAGG TTTTCACCCG GGAATAGTC GTATTCATCA ATTAAATGCG ACTGTTAAAC 240
 TTTTATnCTT ATTAGTTGTT CTAITCTGCA ATGGTnCTAT GCACAGGTAT TnATTTAATT 300
 35 AGGCTCACAT TTATGGGCAA TTCTCAATGA TGAACAGTCG TTGTGTAATC TCG 353

(2) INFORMATION FOR SEQ ID NO: 1014:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 627 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1014:

CAAAGCCTTC AACAAATAT CUTTIATTAG TACTGATTGG TTGCACAACA TAAGTTACAC 60
 CAGGTTCATC TTTAAATGTA ACTTCCTTAT AGAAGAGACC TTTTTTAGCA CTATACTCTG 120
 50 TTTTTCCTGA TTAAATTTTA TCTTTTAGAT TTTTCTCTTC CAAGTAAC TG TCAATTAGTT 180

ATGAAATAAA TAATATAATG ATAACCTTTAA TCGCGTTTTT TTTCTTCTTC ATTATGTAAC 300
 TCCTTTTTGC TTATCTATTG AGTATGAACG AATCAATTAA TTAAATAAAG AGTTTTTTACC 360
 5 AGATTGTAAC AAATTTTTTT ATICTCAATA TTATTATAGA AATCGAATTA CATACACGAT 420
 GCITTTAAAA AATTTAATAA CAAATTTTAT TTTACTATCT ATCAAAATAA TTGACTACTT 480
 TTAACAATTA AGGATGATAC AATTACATTT TTTCAATTT AAAAAATCAG TCATATCAGT 540
 10 AATTACCGAT GAAATACTA AGATATCGAT ATATTTTGCA TTATTAAACA TTTAAATTCn 600
 ATTATAGACA ATTCAATAAT TCGCATG 627

(2) INFORMATION FOR SEQ ID NO: 1015:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 462 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1015:

25 TAGTGTGACA TTAACACTGG AACAAAAAGA AGCTGCAATT GCAGAAGTTA ATAAGCTTAA 60
 ACAACAAGCA ATTGATCATG TTAACAATGC ACCTGATGTT CATTGAGTTG AAGAAATTCA 120
 ACAACAAGAA CAGGCGATA TTGAACAATT TAATCCAGAA CAATTTACGA TTGAACAAGC 180
 30 AAAATCAAAT GCAATTAAAT CGATTGAAGA TGCAATTCAA CATATGATTG ATGAAATCAA 240
 AGCTCGTACT GATCTAACAG ATAAAGAGAA GCAAGAAGCT ATTGCTAAGT TAAATCAATT 300
 AAAAGAACAA GCAATTCAAG CGATTCAACG TCGCGAAAGC ATCGATGAAA TAAGTGAGCA 360
 35 ATTGGAAACA TTTAAAGCTC AAATGAAAGC AGCTAATCCA ACAGCAAAG AACTAGCTAA 420
 ACGCAAGCAA GAAGCTATTA GTAGAATTAA AGACTTTTCA AA 462

(2) INFORMATION FOR SEQ ID NO: 1016:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 235 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1016:

50 TGATTGGTCC CATCGACTCG TTATAACAAA TTGAAGGTAC AAAAGTATCT TGTGATTTAA 60
 TAAATTCAGT TAAATTCGTA CCTGGTTCTA CAAGGTAATT CTTTCCATC AAGTGTAACC 120

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ATAAATTGCG CATATCCACC AAAAATAACG ATGCCCCACA CATCTTTCAG ATAGG

235

(2) INFORMATION FOR SEQ ID NO: 1017:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 227 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1017:

GTGAAAACT ATAAGATCA: ATAAGGTAA AACAGTGGTT TGTGTCATTA GTGGTGGTAA 60
 TAATGATATT AATCGAATGA AAGAAATTGA AGAACGTTCA TTAATATACG AGGAATGAA 120
 GCATTACTTT ATCTTAAATT TCCTCAACG TCCAGTGCA TTGAGAGAAT TTGTAAATGA 180
 CGTATTAGGA CCTCAAGACG ATATTACTAA ATTGAATAC TTAAAT 227

(2) INFORMATION FOR SEQ ID NO: 1018:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 284 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1018:

GTCTTACTTG CACAAGGTAT TATTCTATC TTACTCGTTG CTTTCGCAAT CATGCTATAT 60
 ATCATTAATA TTTTAGATGC ATATCGTAAT GCTGAACGAT TTAATCGCAA TGAGAAATA 120
 AAGGATCCGA AGCGCGTATG GTGGCACATG GGACAGACG TTCCCACT TACTAATCTC 180
 ACCAGGTACA ThCTTATIGA TATTGTAGTG TAATTCCATT ATATTATGTT GGAGTAGCAT 240
 TACAATACAA TTATACACGC GCCTCGAGAC nACATAGATG GGTG 284

(2) INFORMATION FOR SEQ ID NO: 1019:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 779 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1019:

CAATCATCAC ACATAAATGT TCGAATAGGA TTGTTTTTAA GTCGTTTAGA CTCAGTTGTG 60

	CACCTCAATA TGAGTTACAT GGTTCATTGC ATATGAATAA CCATCTTCTT GATTGTAAT	180
	AAAACATCT ACACCATTAT CGCTGTAAAG TCGTTTACCG TCTTTTGCAA ATTGGAAAAA	240
5	TAAATAGGGT AATAGATCTA TCGGTATATC TAAATGATCA TGCTCATTTG ATAATCGAAT	300
	AGTAGTTGCA GAGTCATGTG GTTCGGAAATG TTTGAAAAAT GGTGTCTATAT TAATGACAAA	360
	TGAACCTTCT AACATGGCAC GTTTTTTATA TTTTATTCTT GAATTTAAAG TAGGCGGATT	420
10	AGTTTGTCTT TCTAGGATAG CACGATTCCA TTCaTGATTA TCTTCAAAGT CGAATGGTTT	480
	TGAACCATCa AATACACCTT TTTCTAAATC TTCGATGCTA ACTTTCTAT CATCGAAAAAT	540
	CCAAGTCGTA CTATCTAATG TTATAGGAAA CTTTACGGCT CTTTAAATTT GTATCATTTT	600
15	CCCACCTCCT ATCAATGTAT ATAGCATTAT TTTAACACAA ATTGCTAACG ACACATTTTA	660
	AATCTACTTG CTTTTTAATA TTTAGTAAGA TAAACTTTTA GTAAGACTTG AGAATTATTA	720
20	TAGAGGGGGA GCGTGTATG GCGAAACAAG CAACAATGAA AAATGCAGCT TTGAACAA	779

(2) INFORMATION FOR SEQ ID NO: 1020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 950 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1020:

	TTAATGGTCC ATTAAGAATA ATGGCAGAAA ACCGTTTGCA TAAATCAAAAC CTTGATTAC	60
	TAACCTAAGT AATACTCGCT TTTCTATAAT CCTTTAGAAA GGAACATAAT ATCATGATTA	120
35	CTTCATTGAG ACATTCTGAA GATATAGATA AACATATTAT AAAAACACCA TTAGATCATA	180
	CAGCGTCATG GATTAAATGA GTAGAACGAG ACCGAGAAGA AATTGAAAAAT CTTATGGAAC	240
40	AATATAATAT ACCTGAAGAC TTTATACGTG ACCCTTTGGA CTCAGAAGAA AGTTCCCGTA	300
	TTGAATATGA CGAAGATACT GGTACTCAT TAATCAATTAT TGATTACCT ATCGTCAATT	360
	CAACTAATCG TAGCGTTCTA TCTTTTGTA CGATTCCATT AGGCATTATT ATTGGCAACG	420
45	GTATTATCGT AACAGTTTGT GACGCTGAAA ATGAATTTT AGAAAAATTA CCTAACGCTG	480
	ATATTAATTT AAAATTTCAC AGCAGATTTG CATTAGAAAT TTAACTACT ATTCCGACC	540
	ATTATAATCG TAACCTACGA TTAATTAAATA AAAGTAGAAT TCGATTGAG AAAGAACFAA	600
50	AAAATAACAT TACTAACAAA CAACTTTTCA AATTAATGGA AGTTGAAAAA AGTTTAGTAT	660
	ACTTTTTAGC TGCCTTAAAA GGTAACGATA CAATTATTAA AAAGTTATTC CGTTTACCTG	720

AAGCCATCGA AACACAGAA TTACATCAAC GTATCTTAGA AAGTATCACA ACATCATACG 840
 CTTCCTTATT ATCTAATGAT ATGAATACGA TTATGAAGAC ATTAACACTT TTCACGGTAC 900
 5 TATTAACgTT ACCAaYActC GTATTTAGTT TCTTCGGTAT GAATCTGTGC 950

(2) INFORMATION FOR SEQ ID NO: 1021:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 528 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1021:

AATATATAAA ATGAATACAT TGTGAGGCAA TTATCAAATG AAATTTAATA AAGTAAAACT 60
 20 AGTTATACAT GCGTGTGTAC TATTATTTAT CATTATTCT ATAGCGTTAA TTTTTCATCG 120
 ATTACAGACG AAGACACATT CTATAGACCC AATACATAAG GAAACAAAAT TATCAGACAA 180
 TGAATAATAT TTATGGGATC GTAATAAGGA AAAGGTTGCG CCGTCTAAAC TAAAGAGAGT 240
 25 ATATAATAGC AAGGATCCTA AATATAAGAA AATTGACAAG TATTTACAAA GTTCATTATT 300
 TAACGGTTCA GTAGCTATAT ATGAAAATGG CAAATTGAAA aTGAGTAAaG GTcATGGaTA 360
 TCAAGaTTTT GAAAAAGGTa TTAaaaaCAC ACCGaaTACG aTGTTTTtAA TnGGTTcAGC 420
 30 TCAAAaATTT TCAACAGGGT TACTGTTAAA ACAGTTAGAA GAAGAACATA AAATAAATAT 480
 CAATGATCCA GTAAGTAAAT ACCTCCATG GTTTAAAAACA TCTAAGCC 528

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(2) INFORMATION FOR SEQ ID NO: 1022:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 713 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1022:

GCATtncGGT TAAaGTaKgt TTCAGCTTCT CTcaTTTTAG AAGTACCGaa AAaTGGtITG 60
 TTaCTGGAT TTAATtCAC GATAAATATT GCTTACTTTG TTACTTTGTf AAATGTACCC 120
 ATTACGAGTC TCAATGTTAT TCCAATAAAT ATCACTTGTT GGTGCATGTT TTGGATATGC 180
 50 ACAATGATTT CTGAAATTG TTTGAACGAT TTCTAATGGA TCACAGCCAA ATGTACTGTT 240
 TAATACTTCA GAGTCTCTGA ATAATGCACA AaNTGAAATA CAAGTTGTCC AGTTTGGTAA 300

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AGTATCTTGC GTATAACCAG CCTCTATACG AACCATTTTA AATTIGITT GAATIAAATC 420
 TGTAAAACTC TGTCTATCCA TTCTGTTATC TACCTTTCTG TTGGGGAAT TTTATCCGGA 480
 5 CACAAGAAAT TGCAATAATA CACATTCTCT GAAACACAGA TTACATCTTA ATATATTTTT 540
 AATAAAATGA AAGAGTCAA TTTCACATT GTATTAAAT TTGATCAAGT CAACAAGAGT 600
 TAAGTTTACT TTATAATGAA GCGAAGTAA ATGAAGTAAA ATTTATGCA TAATCACTAG 660
 10 ATTTGATAAA ACTTACACTT TTATAATGaT ATCAAATTTA CAAAGGAAAA CTG 713
 (2) INFORMATION FOR SEQ ID NO: 1023:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 570 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1023:
 AATAAAATAG AAATGATTAT GGGTACAAAT ATCGCTATCA TATCCTTGT ATTAAATTATA 60
 25 TTACAAGCAT TTAATATTAC TTGGGCGT ATACCAATTA CAAATTTGG ACATCAATTT 120
 TTCTTTTCA TTGGTATTAT TTTAGTAATT GCCGGCATAT TTTwyAAGCG ACTtGAGITT 180
 TCGGGAATcG GGTATTATT TTGTcAAAAA ACCGTGGATG CAATGATTCA TAATCCACAA 240
 30 TCAGCCCAGA TTTTTTCATT AATTATATGG ATATTATTAG TAGTICTAGT TATATATTTT 300
 ACAATTAGAT TATCTTCACG TACAAGATTA TAAATATGAT AAAACTATTC ACTTGATTAA 360
 35 TTGTATTAAAT TGAATGAT AGTTTTTTTA TTGTGGAAT AACTTTTGGT AATTATATAA 420
 TAATTTAAAA AAATTGTTTA TAAAAGGAAG CGTATATAGA ATGAAGGTTG GGTATATAGT 480
 TTATTGAGGG AGGTGTCA CAATGAATAAG TCACAaTTAA TCCTCAAAATC CAATTAACTT 540
 40 ATCAAATTGA AGGTAAAGGG GATCCTATAn 570

(2) INFORMATION FOR SEQ ID NO: 1024:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 487 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1024:
 CTTGTGTGTG CTTGAGCAIT ATTAAAAAGA GTATTTAAAT TTAGTTGTTG GTTTGTAATA 60

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TCAGAATTAT TAACACTATA TTCCCTTTA AATAATGGTG ATTCGTAATA ATGCTTATCT 180
 TTATCTGCAG CTAACCTGGAA TTkccCTAAT GCAGAGTCTG CGATTGTTGG TTCAAGATTa 240
 5 ATCATTGATT TCTCTTTTTT AGGATCATGT CCATATGACA EGTaATTTTC GATGCATTAA 300
 CAACAGATTT AkaAATGCCA AGCCCTTTAA CAATTTTCAT TGATGCATCT GCGCTTAATn 360
 CTAATGAAGA TAAAAACGAT TAtCTTTTCAT CkktTCTTGG AACTTCACIT CATTTTCAAA 420
 10 ACGGTCATTA AAATAATCTT TATACATTTT TGCTGTTTGT TGTTCACTTT TTAGGTATGT 480
 ATTTTTC 487

15 (2) INFORMATION FOR SEQ ID NO: 1025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1025:

25 ATATGTTATA AACAATTTTA CAGTTGTATC ATCTACTCGT TCTATTCTCA TATCATCTCA 60
 CTCCTTACAG TCGATGAATA GTATCCACAT TGTATTAAAG CATCAACAA AATACAATTT 120
 ATTTGTTTGA TTCTTTCTC TAAAnTATTT TGGTAACCTA TAATAACATA TTCGTTGTAG 180
 30 CAAAACTATT TAAATGATTT ATACAGTTAA AGCATTAAAG CACTTTCTTA ATTTAATTTT 240
 ACCTTATCAT AGCAAAATGTT TCATCCAAAA CACTCTAATA TAGAGCTATA TTAACAATTG 300
 35 CACATTTGat TTAAGAGATA CTAAGCAATT ATTGtAAAAA TAAaACCAAA AaAGCAACAC 360
 TATA 364

(2) INFORMATION FOR SEQ ID NO: 1026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 40 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1026:

45 TGCCCCAGGG GAGTAcHAAA AAAAGnGGG GTGGGGAATT GGAaACCGGA ATTAGTGGTT 60
 50 AAAGGGGITT ATTGGATGTT GGGTCTAAAG TATTCCCGA AATTTATCCA TChATGATTG 120
 CTTTAGCCAA GTTTTTTTC AACCATCTTT TATGGAATTT AGTTATCTCA ATTACATTAA 180

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CITATATAAA AATGGCACAA TTATTTCATG TACCAACAAG AACAAATATTA ATACGTCATT 300
 TAACACCTAA AATTATACCG GCTATTATCG TTG 333

(2) INFORMATION FOR SEQ ID NO: 1027:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 450 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1027:

TGTTCCATTC GTTTTAATAA TGGTGATACT GTACCAAGTAT CGAGTGTCTAA TTCAGTTACG 60
 ACTTTCTTGA CGTTTACAGG AGATTTCATCC CATAAAAATTG TTAAGACAAG AAATTGTGGG 120
 TATGTTAGAT TGTACTTCTT AAAAAGTTTG TTAGAGTAGT AGCGATTAAAC TTGCTTTTGA 180
 GCATTGTACA AACTAAAGCA TAGCTGTCTT TTTAAATTAT GTTGATCAGA CATTTAAAGTT 240
 CTCCTCCAGA CATACTATCC GTTTTnTCT CTTTTCGGAT TGGTAATCAT TAAAAAGTTG 300
 ATTGTTTATT AATTCACAAC TTTCITTGAT TCAATGCCAT GcAAAAATTA AAGTATGTTT 360
 AAAGTTTAGA AGATATTTTT GATTAAATCA AGCAAAAAGA TAATTTAATA TATATGTGAT 420
 CATTTTTAAA AATAACTGTh ATAGAAAAGA 450

(2) INFORMATION FOR SEQ ID NO: 1028:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 535 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1028:

TGCATCTATA CCTAGAAGTT TAATTTGGGA TTTTATTGGG TCTGTAATAT CTTTAATACC 60
 ACTTTCGATA GGGAAAGTTT CGTCACCTTC AACATATTTA ATACCAAAGC CACCACCAAG 120
 GTTTAATAAT TCAACTTGAA TGCCCTTGctC TTtaAGCCAA CGTAAAmCAA TTTTAGCagT 180
 TTCAATAAAE GCTTCTGTAC CTTCAAtCTG TGfACCaATA TGACAATGTA CACCTTTTAA 240
 TTTTAAGTGT TTAGATTGTI GGACTTTGTC AATTGCTTTT TTAGCTAAGC CATATTGgAT 300
 TgAtAATCCA AACTTACTAT CTTCTTGCCC AGTTTGAaTA AATTCgTGtG TATGTGCTTC 360
 aACACCTGGa TTAAGTCGTA AtACAAGCTTg aACCGTATCA TTAGCATAGC GGTCTATTAA 420

AATTTCATGT TTCGTTTTAT TGTACCATG GAAATGSATG CGACTCGGTT CAAAA

535

(2) INFORMATION FOR SEQ ID NO: 1029:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 359 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1029:

GAAGATGATT GAATTATGGA ATTTTTTTCG AGATATGTTA TTTCGGGGAT CAGATTTTGC	60
GATTTTGCGT TGGATAGAGT AGTTGCGATT TGTAAATACG TTTTTCAGGT TCGATTCAAT	120
TTCGTTGTTA AGATAATATG GATTAGTTTC ACTGACATGT TGATGCATGT CTTTTTTGTT	180
CTGATAAAGT ATAAAAATGTT TACTTAACAT TACTTAGTAT GACACCTGCT AATTCARACA	240
TTATTTGAGA CATTCTTTTC AAATTAATTA TAAATTTTTA CCTATAGACT AGTTTGTATAT	300
TTATCTACAT CTCAAAATTC TCATCAACAA TCTGTCACAT CCAACATTTT TACTTnAGT	359

(2) INFORMATION FOR SEQ ID NO: 1030:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 341 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1030:

TACATIGGTA AATAATTCTC ATAGTTTATG TCTCGTTGAT TAATCCAATC ATTGTTTTTA	60
TCGGGTAAAA CATTCAAAC TTTCAAATTC ACAATTGATT GATGTTTCAT TAAAGTATCT	120
AATTTTGTCT CTCTAGTTAA ATATTCACCA ATGTCATTAT AATAGATATC GTGATTGTAA	180
CTTCCATCTT TAACTAAAA AGATATAGCT ATCGGTGCTC TACTTCCTGA TCCAAATATT	240
TTCCACCTT CTTTTCTGg TTTTTCACCC TGATGTCGTT GGTCGCCTCT CAAATTAATT	300
ATGTACAGat AGTTAAATTC ATCGaTAAAA CTTTCTATAA T	341

(2) INFORMATION FOR SEQ ID NO: 1031:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 326 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1031:

5 GTCTAACTTT AATGTTTAAA AAnCTTAGAA ATTTCTACT CATAAATGGA TGCTTTATGG 60
 AATATTATTA ACAGGCCCGAG CTTCATGCT AGCTATAGAA TTGGATGGT TCTTAACAGA 120
 GATGGGTAGA CAGCCTTGA TTGTTCTGTG TTATATGCGC GTGCAGAGA CAGCAACACA 180
 GCAGCGGAAT AACCTTCGTT ACAATTTTAT TTGGCATATG TACATCATTT AAGTATACAG 240
 10 TGCAACGTAT ATCGTAGTTA AAATAACCGC GTAGAGAGTA ACGTAGCAGA GCAGAGGAAT 300
 GAAAnATTAG CTTATGnAAC GGTAGG 326

15 (2) INFORMATION FOR SEQ ID NO: 1032:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 263 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1032:

25 ACAATCAGGC TTGTGAAGAA TGAATTGCAT GACGTTTGTG TAATTGAACT GCGAGGTTTA 60
 ATTTCTAAAA TGCTCCAGnC CTCCAATGTA ATCGCATCTT GATATAACAT AGCGATCGCT 120
 TGATTTGTG TTGTATCAAC ACCTCTAAAC AACGTTTCAC CTATTGGCA ATTCAATTTAT 180
 30 TTTACCCAAA TCATTATATA AAAGTTGTGG TAACATGCTC GAAATACCAC CTGAAATAAT 240
 nTCAATCGAT ATCCTATTTC TCT 263

35 (2) INFORMATION FOR SEQ ID NO: 1033:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 514 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 40 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1033:

45 TTTCATAGA GGATCCTGTA GAGATGCAAA TTCCTGGTAT CGTCCAAATT AATGTGAATG 60
 ATAAAGCTGG CATAAACTAT GTAAATTCGT TTAAAGCTAT TTAAAGATGT GATCCTGATG 120
 TTATTTTAAT AGGTGAAATC AGAGATAAAG ATGTTGCCAA GTGTGTTATA CAGGCTAGTT 180
 50 TAAGTGGTCA CCTGTGTTCTG ACTACATTGC ATGCAACTGA TTGTAAAGGT GCTATTTTAA 240
 GGCTATTAGA AATGGGCATT TCTGTACAAG AATTGATACA GGCAACTAAC TTAATTATAA 300

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AGCAACAACCT CCGATATTTT TTTTCCaTa ATCATtCATT ACCATCATCA TTTAAGAACT 420
 TAGAAGATAA ACTTGATGAT ATGACAAAAG CAGGTGTCAT TTGTGAACT ACAATGCATA 480
 5 AATACATTTA AACTACATTC TAAGAAGCGA CAAT 514

(2) INFORMATION FOR SEQ ID NO: 1034:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 598 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1034:

TTTTTCACGA ACATTTTGT TTA AAAATTTT CTTTCTTAA CGTATACCTT CTGGTGTAAC 60
 20 CTCACAAGT TCATCATCAT TAATGAATTG TAACGCTTCT TCCAATGTTA GAATACGCGG 120
 TCTATTCATT GTTTGTGTTT GGTCCTTCGT TGCAGAACGT ACGTTAGTTT GATGTTTGT 180
 TTTAGTGATG TTAACAGTTA AATCATTTTC ACGATTATGT TCACCAACAA TCATACCTTC 240
 25 ATAAACTTCA GTACCAGGTT CCATGAAGTT TACACCTCTA TCTTCAAGTC CCAAAAATGGc 300
 ATAAGTACTT GCAGAACCTT GATCCATTGA AATTAATGCA CCATTACGAC GACCGCCAAT 360
 TTGTGCTTTA ATACGTGGTC TAAATTCyTC aAATGTATGG TTAATAATAC CGTAACCTCT 420
 30 TGTCAATTGAC ATAAATTCAG TCGTATAACC AATCATACCA CGAGCCGGTA CATTAAAGAT 480
 TAAACGTGTA AGTCCATTAT CAGTTGTAGT CaTATCAACC ATTACCTT TacGTGcACC 540
 35 TAAkGATTCa ATAACAGCAC CTGcATTtC TTGTGGCACT TCACATTGCA CACGTTCa 598

(2) INFORMATION FOR SEQ ID NO: 1035:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 313 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1035:

AAACAGTGCT TCATTATCGG TATTGATATT GATCCACAAG CCGTTGACCT AGGCGGCACA 60
 ATCGTAAACG TCTTAGCACc AAATGAAGAT ATAACAATTA CGGATCAAAA GGTATCTGAA 120
 50 CTTAAGATA TCAAGATGT GACGCATATC ATATTACAGT CGACAATTCC TTTAAGTACC 180
 AGCATTTAGA AGGAATTATA TGAntTAAACC AATGAAAATG TCGTAGTGc CATGCGCCTT 240

AAGTGGGCCA TGT

313

(2) INFORMATION FOR SEQ ID NO: 1036:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 235 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1036:

AATAATGAGT AGGTTTGGAT TACTTACGAG ATACATGGT GAATTATTCT GAAGATAGAC	60
TAATGCGTCC ATTACATTTT GCAATCATTG ATGAGGTGA CTCAATTTTA AATCnACGAG	120
GnCGACGCCA TTAATTATTT CTGGTGAAGT GAAAAGTCAA CGTCACTTTA TACACAAGCA	180
AATGTTTTTG CGAAAAATGT AAAACAGGAC GAAGATTATA AATACGATGA AAAAC	235

(2) INFORMATION FOR SEQ ID NO: 1037:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 263 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1037:

nCAATATACC TCCTATCATC ACACAAAATG CGTGTGTTGCG TATGATTTTC TCAACATCGT	60
AGACTATGCG AATCAGACAC AACACCATGC TCTATATCCA ATATTGCTT TATTGCCTAT	120
CAATGAGCGT ACTGCGTGCT TTTAATAAT CATCATCAAT TAATGACTGT ACAGGCACCT	180
CATGAAAAAT ATCATCCGCC AAGTATTGCG CACGATCACT ATATGCTAAA TGCATCGCTT	240
GTATCAnATG ATGCAAGTAA TCA	263

(2) INFORMATION FOR SEQ ID NO: 1038:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 218 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1038:

ATTGTACCTG GCACAATCTC ATTATGTATT GGATTATCAT CATTACGAGC GCCAAATATT	60
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ACCGTTATGA CATGTTGATC ATTTTtAGTn AATGTTAAAG CTATAACGTG TGATATTGCG 180
 AGTCTGTCGG CAITCAATAT CTtChAAATG CCCTACAT 218

(2) INFORMATION FOR SEQ ID NO: 1039:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 396 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1039:

GTtTAGACGc TAATGnTGGC ATATATTACT TGCCATGCCAA ATGAGTCATA AGGCATAGTT 60
 TTCAAGAAGG GTtCTGACAA TGAAGTGAGC AACATGTCAT GATGAGAAGC AGGACTATAC 120
 AATGAGAATA ACCtTTTtGAT TTTTCATGCA TAAGGCGATT CAATCAAAAG CAATCACCTT 180
 CCAACTGAAT TGTCATTtTG TAAAATAAAA TAATGATCC AATCGTTATC TAATCATAA 240
 ATGTGTAAAC ACATACGTTA TGAATGGATA ACGATTtTTT GTTATGTTAA AGTGGTACAT 300
 TAATCATGTA TTTCGTATGA TAATTAACGA CAAGTGTAAT GGTAAATGT ATTTTATGGA 360
 TGGAAATGCh ATAATAGGCC TGGGTtACCA TGgnGC 396

(2) INFORMATION FOR SEQ ID NO: 1040:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1040:

AGCATTtTGT TTAAAGCTG ATGAAGCAAT AATAAACTCT TCATATCCTC TGTCATTAC 60
 AATTTGACCT TGATATACAA TTtCTTTTAA GTTTTCGATT TCTTTAAATt CTCTGCTATC 120
 ATTTAAAATA GGTGCATtCG TAATAACATT CGCTTCCTTC TTATATCCtTT TAGATTGATA 180
 ATATTCTtTTT GCTGCATGAC TTACTGTTAC GAAGGCATTA ACACGATGTT TTACTATGTG 240
 TTTTtCTATA CTtTCTACAA ACTtTGAAAT AAGTGGAACt TTATTAAATA AGGCATTtTT 300
 CGCATATATt TCATGCGCAT CATAACAAT ATTAGCTTTT TtATAATTGC TAAATAGAC 360
 CATTAAATAAT ACGTCGAAAT CATTtGCATG AATCACGTCA 400

(2) INFORMATION FOR SEQ ID NO: 1041:

(A) LENGTH: 268 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1041:

10 ACTTGCGTTT CTATTAGCT CAGACAGGAA AAATATTGCG TGGAAATATG TAGGAATTT 60
 ACTTGCAATT CAGCTTATCT TTGCATTAT CTTGCTTAAA ACTACAATGG GAATCAAGGT 120
 TATTGGTGGT ATTTCAAACG GTTTTAACTA CTTATTATTA AAAGCAGCAG ATGTTGTTAA 180
 15 CTTTGATTC GGTGGTATTC AATATATCGT CCTAAGCAC CCACCCATTC CTCCTCCGGG 240
 GAATAATAAC CAACnGAATT AATCCGn 268

(2) INFORMATION FOR SEQ ID NO: 1042:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 277 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1042:

30 GTGAAGATAA GAAATTAAAG TTAAGACAAG GTTAAAAATA AGCAAAAAAT ATTGAAATTA 60
 CAGATCATTG GAnTGGTATT CCAGAGGAAG ATCAAGATTC ATTTTGTATC GCTTTTATCG 120
 ATGGATTAAA TCTCGTTCAA GAAGTCAAGC GGTAATGGAC TCGATTATCT ATTGCTCAAA 180
 35 AAATCATCAA TTAAACGGnG ATCGATTAAA ATTAAAGTGA ATTAACAAGG AGCAACGTTA 240
 AATCTATTTT AATCAGACTG AGACGTCATC AAGTCAT 277

(2) INFORMATION FOR SEQ ID NO: 1043:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 379 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1043:

50 TTATCATCAC AAGTGATTTT' GAAAAATAAA AAATCGAAGA TGATGACAAT GATT'CAGGFA 60
 GTGTGCCGAT ATTGCCGTTT ATTAACGAG ACAAGCATA TCAAATTATC CAGAAATTAG 120
 TACCAGATTT ATCTTATCAA CAAGTTAATG AAGGTATGCC TTTGTcAGGn TTCCACAGAC 180

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AACCATTATT ATTGTTATTA CCGATATAAC CATAGTCATA TGGTATTGT GATCCAAGGT 300
 ACCTTATGTC AACAGCGGT TAAAGCAGAG ACAATACATC AGATTCCGCA TGAACGAAAT 360
 5 TATATTAA n GCTnCTAAG 379

(2) INFORMATION FOR SEQ ID NO: 1044:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1044:

ATATTGAAC TGAAGACCAT GCAGATATAA ATGAAATAAC ATATCGATT TCAAAAATTT 60
 20 TCGGTATTAA ATCTATTAGT CCGATTATAA AAGTAGAAAA AACAAATAGAG GCAATAAGTG 120
 CAGGGACAAT TAAATTTCCG CCATTnTGAA GAAAACAGCA CATTTAAAT TGATGTGAAG 180
 25 CGTGCCGATA AAAATTTCCC AATGGATACG TATGAATTAC AGCGTGAATT GGGTGGTGCA 240
 GTATTGAAGC ACTTCGACAA TATTTCAGTG aATGTcaAAC GTCCAGATCA TggAAATTCg 300
 AGTGGGmAGT TLAGGmTTAG ATGCCAATTT TATATGGTAT GnaAAGAAGTT GGTTCGGGGG 360
 30 TTCCAGGTGG GATTTACCnG TTGGGTACTG GTGGGTnAA 399

(2) INFORMATION FOR SEQ ID NO: 1045:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1045:

AnGATAAACa GAGGAGCACA AAAATGAATn nAAATATAAT CATCAAAAGT ATTGCGGCAT 60
 45 TGACGATTTT AACATCAATA ACTGGTGTCT GCACAACAGT GGTGTGATGGT ATTCACAAA 120
 CAGCCAAAGC AGAAAATAGT GTGAAATTAA TTACCAACAC GAATGTTGCA CCATACAGTG 180
 GTGTTACATG GATGGGCGCT GGAACAGGAT TTGTAGTTGG GAATCATACA ATCATTACCA 240
 50 ATAAACATGT TACITATCAC ATGAAAGTCG GTGATGAAAT CAAAGCAGAT CCTAATGGTT 300
 TTTATAATAA CCGTGTGGA CTTTATAAAG TTAATAAGAT TGTAGATTAT CCTGGTAAAG 360
 AAGATATTGC GGTGTACAA GTTGAAGAAA AATCAACGCA 400

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 626 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1046:

ATAAACTCT	ACACCATCAT	CTTTACCTAC	AACATTTGTA	GCTTTAACTT	TTAGTCCAAA	60
GTTATCTTTA	AAGAATTGTT	CACCTACTTT	TTCAAATTCT	TTACGATGCT	TCTTCACAAA	120
TTCAATCGCA	TCTTTTTCTG	CAGGTGGTTG	AAAGCCTTGT	CCTACATATT	TTGAAGCTTC	180
CAITCTCTCT	GGTACTGATT	TTGTTTCTGT	ATTGTTTTCT	GTATTTGTTT	CTGTATTTGT	240
GTCTTTTTTT	GATTCATTAT	TCATCGCTGA	ACATCCTGAT	AACAGTAGCG	TTGCTATTAA	300
GATTAAATTC	GCCTTTTAA	ACATAGCTCA	TCACCCATTT	ATGTGKTTAT	ATAGAATATT	360
AAAAAGCATT	TTAAAAAATA	TTTATTCATC	TTTACGATAC	ACTCCATATT	CTATTGGATC	420
ATTATCATCA	TAAAGGCTT	TTTTAGTATT	AATAGTAGGC	TTTCTATTT	GAATTGTAAT	480
TGTAGATTTT	TCTGCTTAT	TTTTAAAAAT	ATATAGTTTA	TCACTCAGTT	CAATTACATC	540
ATCAACTGTA	TTGTCTTAG	TAAAAATTTT	CTTTGTACTA	AACAATGTGT	TTACTGTATC	600
TGTATTAGCA	GCGAATTCA	CTTCTT				626

(2) INFORMATION FOR SEQ ID NO: 1047:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1047:

GACGGCGTTC	AAAATGCAAC	GGTCAATTTA	ACACAGAGC	AAGCTAAAGT	TGACTATTAT	60
CCTGAAGAAA	CAGATGCTGA	TAAACTTGTC	ACTCGCATTC	AAAAATTAGG	TATGACGCGT	120
CTATTAAAGA	TAACAATAAA	GTCAACGTCA	CGCAACTGAA	GCGTACAACA	TAAATTGATA	180
GnTATCATAT	CAGCAGTATA	TCTTACCACT	ATAATGTAAT	GTTGACACTT	TCATATGCAT	240
ATACAGACTA	TTACGATCAT	GTCCATTAT	TAGCnCACTG	TCATTATATG	GTGGCATTAT	300
GAGGGTATAA	ACTTAGn					317

(2) INFORMATION FOR SEQ ID NO: 1048:

(A) LENGTH: 223 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1048:

10 ATACGnATTA TGCAAAAAAT AAAGTGAGAT TGGCATATGT GTAAATCTAA AATACTGTTG 60
 AAAAAATATT TTAGTGAAAT AATCAGAAGT TAAAGATTTA ACTGAAGTAA AAATATAATC 120
 AAGATTACGA GTCATTAACA TTAGCTTTA AAGAGGGAAA CATATCAAG TAGGTTAGCT 180
 15 AAGnAAAAA CCGACTAAAT CGGGGATATT TCGTGACATG TTG 223

(2) INFORMATION FOR SEQ ID NO: 1049:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 608 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1049:

AAATATGAAT AATGCAATTG ACCAACGTTT GATAACGTTG CCATACCCAT ATTAAATTTT 60
 30 GTATAACCTT GTTCTTACT CCAAGTAAC ATATGCAAGT ATAGACCATC CATTAAATGGT 120
 AAATCTAACT CTGGCAACCA TCTAATTAAA TCGACTGAAA TGGCATCATT AAAGTATGTT 180
 GGCATTAAAC TACAAAATGC AATTACTTCA TTTTCTTCAT TTCGCATTAC ACCAATTGGC 240
 35 GCTTTAGATA AGTATTCTTC ATTAAATnCA CCAACAGAGA AATGCATTTC CyGACGATTA 300
 TCTAGCCaTA AATcACTTAC ATGTTGAAGt TCATTtataA ATTCAgTTGr AAACGGtGgt 360
 TCAATAATTT CGAACGAAAT ATTAAGTTCA TCGAATtnAT TTAAAGTGCg TCTAAATCCC 420
 40 ACGGCGTTTT TTACCTGAAG TTGAAAATTG CGTTAAATCA ATAATTGCTT CTTACCTTAA 480
 TTTGAAAAAT TGGTTACCGG nATTATGATA TAAAGGCATG TGTTGATCTG TAACTTGATA 540
 45 GAATATAACA TCATAGCCTA AATACTCAGC GTAATTATAG AATGCTTCTA ACAATTCATC 600
 AAAGGCAT 608

(2) INFORMATION FOR SEQ ID NO: 1050:

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 292 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1050:

5 TGTITTTCTA CGCTAAACTA TAIGATAAAAT TGCCTATGTA TTTACTGGTG TTTATGGCCT 60
 TTACAGCTGT AATTTTGATT ATGATGTACA TACAAGAGAA AAATGAAAAT TACAAAGTTG 120
 AAAAAAGATA TGTGGTTAGA TATCTCACAC TTAACGTTAT TGTGGGATAT ACTTTGCCAT 180
 10 TGTCTTTTGT ATCTATTTAC GTTTTTGGTG TAGTCGGTTT TGGATTTGAT GTTTTCAATT 240
 ATTGCTAGG TAKTATCTTG ATGTAATWTA TTTCTTGGTT TAGGTnTATT nT 292

(2) INFORMATION FOR SEQ ID NO: 1051:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 734 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1051:

TAAATCTCA AAGATTTCCT CTAAACATT ATAATCTTCA ACGATACTCG AATAATAATA 60
 25 CAGCTCATCA TTTCTGGGCT TGGTATAATA AAATATRACT TGCCACCTC CATCGTCCAC 120
 ATATGCAATT ACATATACCT TTTCCCACTC TACTGGTATC ATTTCATTGA TCTCATTTGC 180
 AATTTTATTG TACATTTTCA TTAATTTTTC TTGAAATTC ATGTTATCGC CTCTATTGTT 240
 30 CAGCTTCTTC TTGCTCTTTA ACATATTGCT CGATTTCCTT AACTTTATTA ATTTTCATATT 300
 CCGTTTCTGG TAAAAATCCA AATTTTCTAT ACTTATAGTA ATTTTGTCGA CCTACTTGAC 360
 35 CAAATTTCTGA ATTTATCCAA TCAATATAAT CAAATGAAAC TTTTAATTCA CCTTCTCTTG 420
 TAAAGTCAAA TTCGATGAT GTCCATGGTT CATGTCCTTC TTCTTTAAAT AAATTCCTTA 480
 AATTTTGAAA TTGTTTATAC AACTCATACA CTGAATCCAT AAATCCGAT TCCGATATAT 540
 40 CATATTTATT TAATACACTA GTATAGTAGT ATAATTCATT ACITCCAGGT TCTGTGTAAT 600
 AGTAGAACAC TTCTCTCTCT CCGTCATCTA TATATGCCAT TGCATATACC TTTTCCCACT 660
 CTACCGGTAT CATGCTGCTA ATCTTATTGC CAATCTCGCT ATACATTICA CTTAATTTTT 720
 45 CTTCGAAAGT CATG 734

(2) INFORMATION FOR SEQ ID NO: 1052:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 775 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1052:

ATTTTAAACC AAAATGCTT TTTTATCTGA AAAGAAAGGC AATGTTAATG TTCTTCAAC 60
 5 AATTGGTGCA ATCTCTGTT CGTATAAATT ATATTTCACA AAGTTAAAGT CATCTCTATC 120
 ACTTTTCAAA AATTGTGATA TGATTTCTGC ACTTTGTTTT TCAACCAATT CAGGCACATc 180
 TCCATAAATA GCTACAATAT TGTCGCTCAT TCATTACACC CTTTCATTGG TTTGACACAT 240
 10 CAATAGATTA TATCATGTTT CTGTATCTAT AAACCACCTG CATTTCATA AGAGCTTGAA 300
 TCAACTTTTA AATTATCATC TAAGTCAATT GTAACCTGAC CGTTTcGTG ACTATTGTAA 360
 15 ATGCGRACTG CGAATCCTTT GCAATCGTTt aACAACCTCT ATATTAGGaa GwTGATACAT 420
 ATTGTTCTTC CCAGAAAGAA TCAAACCTAT TTAGGCTTA ATCATCTCTA TAAATCTTT 480
 AGAACTACTT GTCTTGCTCC CATGATGTCC TACTTTTAAA ATATCAATCT CCGGCAAGTT 540
 20 ATATTTTTTT AGTAGTAAG ATTCAATTAT TTTACTAGCA TCGCCCATTA ATAAAACCTT 600
 TTTATTTTGA TATGTAATCA TAGTAATAAT CGAATACTCA TTTTATCTC GGCATTTTGG 660
 AATAAACTA TCAAAAAAAT AGAAAACTAC TATCTCCAAG TTTAAAACTA CTAACCTGTC 720
 25 TATCATCCAT AAGTTTAATG GTTGACTTA TGGGCTTAAT TTCCGATAAT AACCA 775

(2) INFORMATION FOR SEQ ID NO: 1053:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1053:

GAGACCAATC ATCATAATGA ACGACAATCA TGTATTTAAT ATTTAATAAA ATACTGAATA 60
 40 ATGCTATAAC TGCCATTAAAT TGAAGACCAA TCGCATCTAA TCGACAAACA CGATCGGCAA 120
 GTGATGGGCC TAGCACAACG CGAATGAGCA TAGCTAACAT AGGAAGTGAC AACTATGATT 180
 AATGCAATAA CGATGAATAA CCTTGATGAn TCATTATAAT TCGCCACCT CTCT 234

(2) INFORMATION FOR SEQ ID NO: 1054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

CTACTGGTAT CATCCACTGA TTTCATTGCG AATTTCATTG TACATTGGAC TTAGCTTTTC 60
 TTGGAAGTC ATGTATTCGC CCCTATAGTT CAGCTTCATC TTGCTCTTTA ATATATTGCT 120
 5 CGATTTCTTT AACTTCTTCC ATTTCTGTATT CCATTTCTGG TAAACACCA AACTTTTTAT 180
 ACATATAATA GTTTTCACGG CCTAATTGAT CAAACTCTGT ATTTATCCAA TCAATATAAT 240
 CAAATGAAAC TTTTAATTTA CCTTCGCTTG TAAAGTCAAA TTCACTTGAT GTCCATGGTT 300
 10 CAAGCCCTTC TTCTTTAGAA AGTTTCTCTT AACTTCTTAA ACAATCTATA TAAATCCGTC 360
 CACAAATCAT AAAATACTTT TTCAGAGACA TTATACTCTC 400

(2) INFORMATION FOR SEQ ID NO: 1055:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 333 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1055:

25 GnGGCATATA TAGCGTTGGC GGTATAACAA AGAAAAATGT GAGATCAGTG TTGGGATTGG 60
 TAAGTAATCC AAGTCTACAA GTTAAAAAAG TTGATGCTAA AAATGGCTTT TCGATAAACG 120
 AGTTGTTTTT TATTCAAAG GAAGAAGTAT CATTGAAGGA ACTGnACTTT AAAATAAGAA 180
 30 AACTCTTAAT CGAAAAATAT AGATTGTATA AAGGAACGTC TGATAAAGGT AGAATTGTTA 240
 TCAATATGAA AGACGAAAAG AAGCATGAAA TTGATTTAAG TGAAAAATTA AGTTTGAAC 300
 GTATGTTTGA TGTAATGGAT AGTAAGCAAA TTA 333

(2) INFORMATION FOR SEQ ID NO: 1056:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 347 base pairs
 40 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1056:

TGGGCGATTG CATTATTGAT TATCAGCACA TGTTTAGCTT ATAAATTTTT ACGAAAGTTT 60
 AGCCGTTTAT AAAGCACATG CATAATGAAA CGAGTAATTG CCACTTGATT AGTACTICAF 120
 50 TATTATGTCG AAAATAAAAA TAAGTGGTAT TTTTAATATA TTAAGAAGCA CTCATAATCG 180
 GCTGTAATT AATAATATTT TTCATAAGTA TTGATTCATC ATTTTCTTTA TGTAAATAT 240

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TAATACAGAT ATCAATATGG CnAAAGTGTT nnATGAATCA GAGGTAA

347

(2) INFORMATION FOR SEQ ID NO: 1057:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 312 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1057:

TCCAAACCG AGAGCCAAGA GTTAACTCTA CTTATATAGG ATACGCGCCA ATTGATGATC 60
 CAAAAATTAGC GTTTTCAATT GTATATACAA ATCAGCCTGT ACCACCACCA TGGTTAACAG 120
 GTGGAGACTT AGGTAGAGAT GTAAATTAACT ACTACTTTAA GCAGTTAGGT AAAGATGATA 180
 AAAATAAAGA CAAAGACAAA TAAAAATTAA CCTGACGATT GTGTAGCGCA TGGTTGTAAA 240
 ATTTTAACTT TGCnAATATT ATAGATGTTG GTATAATAAT AAAGTCGTAT TcAgAaATGA 300
 TwAGGagGGGA AT 312

(2) INFORMATION FOR SEQ ID NO: 1058:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 404 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1058:

GCCATTTTGC GATGCTAAAT CCATTGAAAA TGCAATACCT GAAAGTCCAC CAAACAAAGA 60
 ATTGTTATAT TGACCACCTCT GTAAATATGG TGCTAATTTT ATGATGTACT TATGCACAAT 120
 TTGCTCAGTA TTAATATOGA AAACITTTtG AtAAGCATCT AAAAACAAAA TGATACCTGG 180
 TATACCATGT GATAAAGTTG AAGGTTCAAA ATAATCGGTT TCAGTAGATG CTTTTGAAAT 240
 GAAATCATCT ACTTCTGAAA TCtCTTGAAA CTtCTtCTTC AATATTAGAT TCATATCAAT 300
 CATTTTtGTC ACCACACCAA TGCTTTTGAG TTTTAACAAT TTCtTTTACA ATAGATAAAA 360
 CAAATGTTTC TTGATCCTTA TCAATGCCAA ATATTCGATT GnAG 404

(2) INFORMATION FOR SEQ ID NO: 1059:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 233 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1059:

5 ATGTACATAG GnatGACATA AGTGTGCCTT CTTTTCAAG ACCCTCCATA GAAATAATAC 60
 ATGGATGTGC ACCACGnTAC TACCTCTTTA ACGTTACCAG AATTGATAAA TTAACCTTTCT 120
 CTTGTGTGTC TAAACCTACA ACTGGTGTAC CTTCTCGAT TAAGGCAATT GTACCATGTT 180
 10 TAAGTTCCTCC ACCAGCAAAA CCGCTCGAA TGTAGAAATT CTTAAGTTTA AGT 233

(2) INFORMATION FOR SEQ ID NO: 1060:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 295 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1060:

20 GCACCACTAC TGTTAATAAC ACACCTAAAA AAGTCGAAAT ATAAGGGTTA ATCGCTGTTT 60
 TAAATGTATA TCCTAGTGCg ATTGCCATTA ATTATCCGAT AGCTTTTTCT GCTGCTTCCA 120
 25 TAGTCATCTC ACCTAATGTT GGATGTGCAT GGATTGTTAA TCGGATATCT TCAGCATTCA 180
 TACCAGCTTC AATTGCTAAA CCTAATTCAG AGATAATATC TGATGCACCA GTACCAACTA 240
 30 CTTGAGCACC GATTAAAGTA TCATCTTCTT TAGTGTAAATA AGTTTAACAA ATCCG 295

(2) INFORMATION FOR SEQ ID NO: 1061:

(i) SEQUENCE CHARACTERISTICS:

35 (A) LENGTH: 413 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1061:

40 CAATGCCTCT CGTGTGTCAG CTTCTTCGG TGAAAAACCA ATATTTTCAA GTGCAATAAT 60
 TTGATCTAAG TCCTGCATGA TTACTTTTCT TAATACCATA AAAACACTTC CTTAGCCCTA 120
 45 TATATCAAAA GTAATACCTT CATCTTTATA TTCAITATTT TCAAACTACC TTCACTATAA 180
 AAAACGASTC TTTTATTGA AAGCAATTGG CCTTAATCAA TTAGACAAGT TGTATKATA 240
 50 GAATTAGTAA ATAATCATGA TTATAATTCA TTTTAAGCAT ACTCAAAAAG ACTGGTACAT 300
 GTATACAGT CTAATTCGAA AAAATATATT TAGTTAAAC CATTTCANAA ACGACTTCAC 360

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(2) INFORMATION FOR SEQ ID NO: 1062:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1062:

AAGCTGCATA CTCTCCAAAC TTAGAACCAC CGAAGCGATT CACAAAATAT TTATTAGCTA	60
AAAAGTCGCG ACATAAAATT AATATTGTTA GCAATGCCAT AGATACATAA AACACCCATG	120
ATAAATGCTG ATTATGAAAG CCAAATTGAT AGATTAAAAA GCCAACCCAT AATACTAAAA	180
CAGAAGGAAT AATCGGCTTA ATCAACCCAA CAAATGCTAA CATGAAGGCA GCGATGATAA	240
GTAGCCATAA AATAATTGTC ATGTIGATAT CACATCCTCT TTTGTATTTT TTGATTTTTA	300
GTAAAGAATA TAAGTATCAT ACCTAACATG GTTGATGCTG CTGGATACCA AAANATACAT	360
TTTCCCAAC CTTACCCAGT GGACTCCTAG GCACCACCTT	400

(2) INFORMATION FOR SEQ ID NO: 1063:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1063:

TGGATCAGAA GGAATCTGGA TGCCTATTGA TGACAAAGGA TACTTTAATT TTGACTTCAA	60
AACGAAACGT TTGATGATT TAGAGTTAAA GAAAAATGAT GAGATCTCAT TAACATTTGC	120
ACCTGATGAC GAAGTAGAGG CATTGAAGTC ATTAATTTTC AAAACTAAGG TAACGAGTTT	180
AGAAGATATT GATAAAGCAG AAATAAATA TGACCATACT AAAGTGGAAA AAGTAAAAGT	240
ATTGAAGAT GTTAAAGAAG ATTTACATGT AGATGAAATT TACGGAAGCT TATATCATAC	300
AGAAAAAGGT AAAGGTATTCT TGATAAAGA AGGTACTAAA GTaATTaAAG GTAAGACTAA	360
ATTGCAAAAT GCAGTTGTGA AGGTAGACTC TGAAGTAGGT	400

(2) INFORMATION FOR SEQ ID NO: 1064:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 434 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1064:

5 GTGGTCGTGA AGCAACTGAT TTCAAGAAG AAGATATCGA GCTTTTCAAA GACATTGCCG 60
 ACAAAGTAAA ACAACAAAT AGTTATGATC TAGCGTTTGA TGAATTAGAA AAAGAAAAAG 120
 ACTTCCTGCA AGTCATTGTC AAAAACGATG ACAAAAACCT ACCTACTAAT CAAAATGTCG 180
 10 CTCAACTAGT AGAAGATTTA GCGCTAGAAA TCCAGAAAAA GCGCGAAGAA CGTCACCTAC 240
 TTGGTCAAAAT GATGAATCAA GTACATCAGC AACACAAGA ATTAAAAGAA CTTCAAAATC 300
 AACTTACATC TAAAATCGAT TCAAATAGCG AATCCCTTAA AGCCATCCAA ACATCACAAAG 360
 15 AGGCTATCCA AGAAGCGCAA GCCTCTCAAG CAAAAGCATT AGCTGAATCC ACCAATAAAG 420
 TTGGAAGAA TGCT 434

(2) INFORMATION FOR SEQ ID NO: 1065:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 239 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1065:

30 TAAACATAT GGCTTGATAT TGCAGAAGAA TTGAAGTTAT CGTACCAGAA ACGGTACATA 60
 ATCATGATTA TATGGAAACG AAAAAAATAA AATGGGTCA TTTAATATAG GAGGATTTAA 120
 CATTTGAATTT TGAAGGTAAn TAATTGGAAA AGATTGGAAG TTGCATCGTT ATTATCGTTT 180
 35 AATGATTTTA TCACTGGAAG ATTACTTGAA GGTGCAAAAG ATACnTTGAT TCGACATGA 239

(2) INFORMATION FOR SEQ ID NO: 1066:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 202 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1066:

40 AAATATCTAT AGACCTTTAT TCGGAAATGG TTCGCTCCCA GAATGGAAGG ATGAAGTACC 60
 50 GAGTATTGAA AGGTAGAAGS TCTCCAAACT TTACCTGnAC GTGCAGAnA TCTAACTGAA 120
 GATGATTAG CAATTGAATT GAAACAGCCA ATTGTCGGTT GTAATAACTT AGGAGAGTTA 180

(2) INFORMATION FOR SEQ ID NO: 1067:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 749 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1067:

CTACAAITCG ATCAACGCCG AAGTTAGATA CACGATTGC TTTAATTTTA CCATTITCTT	60
TTAACTCTTC TAATGCACGC CATGAGCCAT ATACGTCAAT GTAAGGTTGG TGAATAAGCA	120
CTAGATCAAG ATAGTCCAAA TTTAATCGTT GTAATGATCG TTCGATTGAT TTGATAGTAT	180
CTTCATAGTT AACATTTTCA ATCCATACTT TAGTCGTAAT GAATAGTTCA CTCTATCAA	240
TACCTGAAGC TTCAATACCT TGACCTACTT CAGTTTCATT TAAATAACTT TGTGCTGTAT	300
CAATATGICT ATAACCCGCT TTAATTGCTT CTTTAACCGC TTCTGCGTIT TGTCTTTGAG	360
GAATTTGAAA TACTCCGAAA CCTAATACTG GTATCTTTAC ATCTTTACTT ATTTCAATAT	420
GATTCAATAA ATGAACCTCC TTTATCTtGT ATGTCCACTA TAAACCATGG AGCGAACTCT	480
ATAGCAAGCC ATAGGTTTAC TTTCTCTCCC AAAGACGTTT AACATTGTCA TCATAATTAT	540
CACTAGCAIT GATTTTAGCA ATATGATTAT CATAATTATC AATTTTATAT TGTAGTAAAT	600
CTCTCGCATC ATGAATTGTC TTTAAGTTT CATTTAATTC TTCGAGTTGC TTATTTAAAA	660
TTTGCTTTTG CTGTGCTTGA ATATTTTCAT TTTTAGGCAA nTGCCTAAC CTGCAAAATT	720
CGATAAGCGA TTCAATACTG ACGCCTGCA	749

(2) INFORMATION FOR SEQ ID NO: 1068:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1068:

TCCTCGAGAT AGACAAGAAT GGTGGTACAA TGTTTTTTAT GACGATGGCA AATATNATAA	60
GAANATAA1T AAGAATGACA TGTCAAAAAT TAGGCGTAAT TTTTAGATTT ATCTATATAT	120
TTATGCCACC GCTCAAACTT TTATnAAAAAG TAAAAAGACA ATATTTATAT TGAACCTGTG	180
ACGTGAATTT CTAAAAACA ACACAACAAT CACAAGGAAA CTAGTAAATA AGTTTAAATA	240

TACTGACTAA AAAGATTCTG AAAGTGATTA AGTATTTAAA ACACGCCAAT CTTAAACGCG 360
 TATTGACAAA TATGAAGCGG AACCACCGTT GTnTTTCTTT ThCAGGTCCA ATTGAATAAA 420
 5 TGTGTGATGAA TAGAAT 436

(2) INFORMATION FOR SEQ ID NO: 1069:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 951 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1069:

TTCTCAAGTA ACAGGTATTA TTGTTACTGG TACAATCAAT AGAGAAAAAT ATGGCATTAA 60
 CTTTAACCAA GCACCTTGAAA CTGGTGGCGT AATGCTAGGC AAAGATGTTA AATTCGAAGC 120
 20 ATCAGCTGAA TTCTCAATCT CAGAATAATC TCATTACACA ATCCTCATTG TTTTAATATA 180
 TATACGAAAT GCCAACTATA TCATCCCTAG GTATAGTTGG CATTITTCGT TTAACCTATG 240
 25 TGTAACAAGC ACTAACTGTT CACCCTAATT TTAGACGCCT TTCATTCAGG TAGTGCTTAT 300
 TGAAACTGAA AACTTTGATG ACCTTTTGcA AaGCCATTAA CTGTATAAAG CATAGATCCT 360
 CCGCCCATTT CTATATCAIT GGAACAAATG ATGAGTTGAT TTGTTCCAGG TATAAATTGC 420
 30 GGATGAGTAG AACGTAACAT ATGCCCTTCA TCTCGGCCTG GTATCAATAT TTGTCCTATT 480
 GGATAACCCC TTTTATTAAA AACTAACACT CGACCTTGGA CCATACATTG CTACGGATAA 540
 ATTATCGGCA C 551

(2) INFORMATION FOR SEQ ID NO: 1070:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 325 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1070:

TATnATGGTA ACGCATGAnC CTGTTGCAGC ACGCTATGCA AATCGAGTAG TGATGCTAnA 60
 AGATGCTCAA ATTTTCACTG AATTATACCA AGGGGATGAC GATAAACATA CCTTTTTCAA 120
 50 AGAAATAATA CGGTAGCAAA GTGTTTTAGG TGCGTTAAT TATGACCTTT AACGAGATAA 180
 TATTTAAAAA TTTTCGTCAA AATTATCAC ATTATGCCAT CTATCTTTTT TCGTTAATTA 240

CAGAGTCATA TCCAATTATA CnGGC

325

(2) INFORMATION FOR SEQ ID NO: 1071:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 771 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1071:

TAAATGCCGC	AATTGGATAG	CTTTAATATA	ATTAAATATC	AAGGTATTn	CAACAAnAAT	60
ATATTATCCA	CCCGAAGGAA	GCGGGGTATn	TTTGTTACTG	ACGTCCACAC	AGAAGCACAn	120
ATATTAGATA	GTGCTTACTC	TGAATTAATA	AAATTAAGAG	ATTATGATGA	AAAACATAAT	180
ATCCCAGGAT	TTTTTGGCGT	ATCTCATGAA	GGATATATAG	TTACATTTCC	ACGTGGCGGA	240
ACCATATATA	CTGGCGCCAT	CATATCAAGT	GGTGTTAGAG	CCACAATTTA	TGAAAATTTT	300
ACCGATGTGT	CTGGTATTTA	TAAAGCTAAT	CCAAATATCA	TCAAAGATCC	TGAATTAATC	360
GAAGAAATCA	CTTATCGAGA	AATGCGTGAA	TTATCTTATG	CTGGTTTTAG	TGTTTTCCAT	420
GATGAAGCCT	TACAACCACT	TTATAAAGAT	CGCATCCCTG	TGGTGATTAA	AAATACGAAC	480
CGCCCTCAAG	ATAAGGGTAC	ATTTATAGTG	CATGATAGAG	AAATAAATGC	GAAAAATGTG	540
ATTAGCGGTA	TAAGTTGTGA	TAAAGATTTT	ACCGTTATTA	ATATCAAAAA	GTATTTAATG	600
AATAGACAAG	TCGGCTTTAC	TAGAAAGATA	TTAGGTGTCT	TAGAGGATAA	TAATATTTCA	660
TTTGATCATA	TGCCTTCAGG	TATTGATACT	ATCAGTATCG	TTATGCGTTC	AAAACAAATT	720
CAAAATAAAG	AAACAAAAGT	ATTAATGAA	ATTCGTCAA	AATGTGATGT	T	771

(2) INFORMATION FOR SEQ ID NO: 1072:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 237 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1072:

CGGTGGATCC	TTTGATCTT	GAGTGAGGIG	CCAATGAAAG	TTATGAGCCA	CGTTGTGCGG	60
CGCACCATAT	CGTAGCACCT	AGTGATAATA	ATAAGGAGGA	ATTATAAGTG	TTTGATCAAT	120
TAGATATTGT	AGAAGAAGA	TACGAACAGT	TAAATGAACT	GTTAATGACC	CAGATGTTGn	180

(2) INFORMATION FOR SEQ ID NO: 1073:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 733 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1073:

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CTCTTTGTGA GGGCGTTACA TCACCGGATG GATGATTATG AACTGCGATG ATTGCATTGG      60
CATTTTCTCT CACCGCAATA CTAAAAATTT CACGTGGATG TACAATCGAA CTATTTAATG      120
TACCTTTAAA AACACAGGTT TCTTTAATCA CTACATTTT TGAATTTAAC AATAAAATGA      180
CAAAATGTTC TTGTGTTAAA TCTTTCATTG TTGGAATCAT ATAATCAGCA ACATCACTTG      240
GTTGCGTTAT TTKTATACGA TTATTTTTCAG CTCTTCTCCC CATCCTTTCC CCTAACTCAA      300
ATGCTGCTTT TAAAGTAATT GCTTTTGTGA ATCCAATCCC TTAACTTTT ATCAAAATCGT      360
TAATTGAAGA TTTTTCATAT TCATTGAGAT TCGAAGCAGA TTTAAGCAGT TCATTACTAA      420
TGCTATGCTC CGAGAATCCT TTTCTCCGGG TGTTAATTAA TATAGCTAAT AATTCTGTAT      480
TCGAAAGACT TTTTGCACCA TGGCTTAACA AACGTCTCTC TGGCATTTC TGAAGTTACCA      540
TTTCTTTAAT TTTCAAAAAA ATACGCCCTC TAAAAATTGA TGGATATCAT TATAAAAAAG      600
TGAATTGATA AAAAAAGGA A TAAATATAAA TGGAAACAAG GGTAAATAGT TAATCGGCTT      660
AAATATCATG GTAATTAAAG CAACTAAACC AGCAATGACA AATGTAAATA AATATGACATA      720
AATAGTGAAT TGG

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(2) INFORMATION FOR SEQ ID NO: 1074:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 768 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1074:

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ATGTTTATTT TTTATGCTCT AAATCGTATG TGTTTATAG GTTCAATTC TTGCCATTAT      60
TAATTTTGCC GAGCAGTAAT GGGTTGTAA AGTATCCATC AATTATGCTT AGCAATATTG      120
AAAAATTTAA ATGAAAAAGC GGTTCATTC TTGAAAAATA GTGTATATTT ACATTTTGGT      180
AATAACTAAC TATAATTAC ATAAGGAGGT TGTCAATTGG TAGTATTGTT ATCTTATAGT      240

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TATTTACATA GAAGATCGAA ATGTGATTAT TGTAATTCGT CACTCAAAG GTATGAATTA 360
 ATGCCGATTA TTAGTTTTTT ATTATTAATA GGGCGATGTC GAAACTGTCG AAAGCGTATT 420
 5 TCCCTAACAC ATTTCTTAGG GGAACCTTT GCTTTAATAC CTATCGTCTT TATTAAGTAT 480
 GATTCACAT ACGTAAATG ACGCTATTTA TAACTACATA TGTCTTCTG CTTATTTTTTA 540
 CTATGACCGA TATCACTTCT TTAATGTTAG ATTGTCGCTT AATTATAATT TATTGTATCG 600
 10 TTTCTCTCTC GTTAAGTATG ATTTATCCAG TAGCTTTTAT CATTATTAGT ATGACCACGC 660
 ATATATTCTA CTTTATATT CGGGCATATA TGGTTATGG TGACGTTTTA CTAATATCTG 720
 15 CACTTTCCTT GTTTTTCCCC TCTCCAATTC ACTATTATG TCATTTTA 768

(2) INFORMATION FOR SEQ ID NO: 1075:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1075:

TCATATTCAT TTAATAAC ATTCATCTCA GCTTTCTCA TTTCTCTTT ATAAAGTTGT 60
 ATTTCTGTC TTAATTCTGG CTCAGACATC TCACTCAATT TCTTCTGTC CATCGGCAAT 120
 30 ACCACTTTCT TCTAATTAG CTTTAATTTT ATCATATTTA TATCCTTTTC TCATAAGGCC 180
 TTGATAGTT TTTGAAATTA ATTTCTGTTG CGTGACTTC TTTCGATTTT TATTATAAAT 240
 35 TTTTCTAAA TCTCGTTGTA ATAAATCGTC TAAAACGCT TCATCTGTG TAAATCCAT 300
 TTCATTC AAT ACAGCATGAA TGGTTTCCAT TTCAAACCTT TTTTGAATTA AAGATTGCAT 360
 TACTTTTG Cn ThAACTnTAT TTGTGCCCC nTTTTTGTG 400

(2) INFORMATION FOR SEQ ID NO: 1076:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 753 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1076:

TTAGGTCAAA ATATGTTTTA TCCAAAGGC ATTTTATCTC AATCTGCTGA AGCAAGAGT 60
 ACAACATATA ATGCAACTAT AGGTATGGCG ACAACAAAG ACGGAAAAAT GTTTCATCA 120

CAAGGCATCG AAGAATTACG TGATTATTGG CAACAAAAAA TGTTGCGTGA CAATCCAGAG 240
 CTATCAATCG ACAACATGTC ACTACCAATT GTTACGAATG CATTAAACACA TGGTTTATCT 300
 5 TTAGTTGGCG ATTTATTGTG AAATCAAGGT GACACTATCT TGTTACCAGA GCATAATTGG 360
 GGTAATTACA AACTGTTTTT CAATACGAGA AATGGTGCAA ACCTTCAAAC ATATCCTATC 420
 TTTGATAAAG ACGGGCATTG TACTACTGAT TCACCTGTAG AAGCTTTACA ATCATACAAT 480
 10 AAAGATAAAG TCATTATGAT TTTAAATTAT CCTAATAATC CGACAGGTGA CACACCTACG 540
 CATAAAGAAG TGACTACCAT CGTCGATGCA ATTAAGCAT TAGCTGATAA AGGTACAAAA 600
 15 GTTATAGCTG TTGTGGATGA CGCATACTAT GGTTTATTCT ATGAAGATGT GTATACTCAA 660
 TCATTATTGA CTGCATTATC TAATTTAAAT TCAAATGCAA TATTACCTGT TCGTTTAGAT 720
 GGTGCAACAA AAGAATTTTT CGCATGGGGA TTC 753

(2) INFORMATION FOR SEQ ID NO: 1077:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 405 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1077:

AGAAGCGATT TGACaATAAA ACAATTGAAA AACTTTTGGA AAGCAAGTGG TGGGAGAAAA 60
 CGCCTGACAA ACTAAAAGGA TTTTCGGTTG AATATTAAAA TAAAAGGAT ACTTAATGAT 120
 35 ATGAGAATTT TAAATATTGT ATCGAGTAAT ATTGTTCAAG ACCCAAGGGT ACTTAAACAA 180
 ATAGAAACAA TTAAAGGCGT TACGGATGAT TATAAAATTG TTGGAATGAA TAATTCACAA 240
 rCTACTAATA AGCGATTGGA AAATTTAGAT TGTAAATTATC GTTTGTTAGG TAGCAAGGTA 300
 40 GATCCAAAAA ATATTCTTTC TAAATTAAAT AAGCGTATAA GATTTGCaAC AGGTGtTATC 360
 CGAGAAATTA AAGCTTTATA AcCTGACGTG AtTCATGCaA ATGAT 405

(2) INFORMATION FOR SEQ ID NO: 1078:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 504 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1078:

CATATTCACA CCTCAATATT CCATAACTTT TACTTTAATA TCAATCCACT TAAATCCATT 120
 CACATCATTTG AGTATAAAAT AATATGGTGA TATACGTTGA AGTTGATTAT CTTATATATA 180
 5 AGTATATCTC ACAGAATTTA TAAATTTGTT TAGTCATCAT CTTAGGTGTT TAATTCAAAA 240
 ATATAGAATC TACTGTATTG CATATATAAT TGAATGCCA CAAATTGTGC TCCAGCGATA 300
 ACCAACATGC TCACAATAAT TATAAACTTA GATTCTACGA CATTAGGmAC CatATATATT 360
 10 CGATAATTTT TTCAATATAT ATAAATGAGC TCAACGCAGT TAATAATAAA CCGAAATGTG 420
 TTTTAGTTTT ACCACCCTAA CGTTTTGTTA CTTTAGGTAA TTTTAATAAC GTGAACATTC 480
 CGCCAATTAC TAATAACAAA TAAC 504
 15

(2) INFORMATION FOR SEQ ID NO: 1079:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 645 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1079:

CATTCCTAAT CAACTTCTTC ATAATGGGAA TTGGCATGG TanCGAAGTG TATTACATTG 60
 TTTATGGTTT ATACCATGCA GCATTGTTTA TAGGTTATGG CTATTATGAA CGTTGGCGTA 120
 30 AGAACATCC GCCACGTGG CAAATGGTT TCACACAGC ACTTAGCATT GTGATTACAT 180
 TCCACTTTGT AACATTGGC TTTTAACTCT TCTCAGGTAA ACTTATATAA TAAAGGAGAA 240
 TTTAATTATG GAATTAGAG AACAAATATT AAATTATTA GCAGAAGTAG CAGAAAATGA 300
 35 TATTGTAAAA GAAATCCAG ACGTAGAAAT TTTTGAAGAA GGTATTATTG ATTCTTTCCa 360
 AACAGTTGGA TTATTATTAG AGATTCAAAA TAAACTTGAAT ATCGAAGTAT CTATTATGGA 420
 CTTTGATAGA GATGAGTGGG caACACCAA TAAATCGTT GAAGCATTAG AAGAGTTACG 480
 ATGAAATTAA AACCTTTTTT ACCCATTTTA ATTAGTGGAG CGGTATTCAT TGCTTTTCTA 540
 TTATTACCTG CTAGTTGGTT TACAGGATTA GTAAATGAAA AGACTGTAGA AGATAATAGA 600
 45 ACTTCATTGA CAGATCAAGT ACTAAAGGC ACATCATTTC AAGAT 645

(2) INFORMATION FOR SEQ ID NO: 1080:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1080:

5 AGATGCCAAA ATCAAAACCA ATAATTTGGC AACACATAT AAGTCCACTT TACCGGACCT 60
 nTAAACTTAT CGTACTGTTA AGAACCAAC GACTGCCATT ATTTGGTCTT AAAGCCACGA 120
 TGGTGGTAGC CnTTGTAATA ATGCTGGCGT AGAAATTAAC CGCCACCCCT AACACCGAAC 180
 10 TATAACGGCG ATAAACCAAT AAAATTATGA TATAATCATC CGTTAAGTCA ATCCATAGTT 240
 TAACATCCCT TATGTTTAAAT TTACTCT 267

(2) INFORMATION FOR SEQ ID NO: 1081:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 441 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1081:

ATATTTGTCC ACTATTAGAA GATTGTAGAG AAGGACAAA ACGTTATAAA GCTAGTTTGA 60
 25 AAGAAGCGTG ATAACATGAC AAATATTACA AAAGAGGTAT TTGATAATTT AGAACCAAGAG 120
 ATTGATTAT TTGCCAATAA TAAGACATTA GGTTCAGTG AAGCAAAGCC CTACTTGGAT 180
 30 GAATACCATA GTAAAATTAT TGATTATTTT AAGCAGGTTA ATGACATAAC TGGCAATATT 240
 GATTTTGATA AATTAATCA ATATCCTGTT GTGCCAATGA ATTTTAAAGA AAGATATGAT 300
 TATATGATTG AACGTAAATA TCATTTTATG GGCTATCGAC AAATGAAGAC CTTTAAACT 360
 35 GAATTGATTA AAATGnATGC TAGTTATCAA ACAAGGTTAA AGAATAAGCA GGTATnGACA 420
 AGATTGATCA TTCTCTAGTG T 441

(2) INFORMATION FOR SEQ ID NO: 1082:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 410 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1082:

50 AAAATTCTTT AGTGATGGT TATGTTGTT GATTGAATA ATTGTATGCG AATATTTTGT 60
 AACAGGGCTA CTAAGAATTT TTATAACAAG AAGTGATTTC AATCGTACTA ATTTTCAGCG 120
 TTGTATGACA AAAGTGATG TCCAACTTA AATAATGGCG ATAAAATTTA AGTCATGGGT 180

55

GTTGAATATC AATAAAAGAT TAGCAAGTTA GTTCAAAATG GCTATGTATT GTTTTITGAA 300
 ATACATAGGT TTGAAATCTA TAITAATTAT GCACCAAATA ATTTAATTAG ACTCTATCGA 360
 5 AAATTTCCAA ATTTTGCTTA CTATCTTTCT AATTTTACTT TTATATTGTG 410

(2) INFORMATION FOR SEQ ID NO: 1083:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 586 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1083:

CAGATATTCC CTTCATTATTA CAAGTTGGTA ACCCATATTT ATCAGACAGC GTAGATAATC 60
 20 ATACCGAAAA GTTGTTAGAA CGCTACGAGC AGTTGGTGGA TTTAGTTATG YAAAGTAATG 120
 ATATGAATCA CGTTTATGTG TTACCACAAC TTCATACATT ACTTTGGAGC AATAAAAAAG 180
 GTGTATAAAG GATAACTTAT TTTACTTTTT GCAAGTCATA TCTAATGAAT AACATATAT 240
 25 TAATTGATAT AATAGTTGAT TGAAGTATAA CGAACAGGAG TCCATCATGA TTGTATATAT 300
 ATTAATTAAT ATTGCTATCG TCGTACTTAT AACTGGATTG AATTATATA GGCATCAAAT 360
 GCAACATTTA TCATTAAGTG CAATGTTGTt ATCTATTACG ATaAACGCCT TTATAAATAC 420
 30 ATTCATAATT GATAAATATA ACTTTATTAC TCTGTGTACT ATAACGATGT TTATCATTTG 480
 GACGATACTA CAGTTTTACA TTGATAAAAA ATTA AACCT GTATACATTA CAGACCAAAA 540
 35 ATTTATTGCT ATCATATTAA CGATTGTTGT CAGTTTAAAG CAACGT 586

(2) INFORMATION FOR SEQ ID NO: 1084:

(i) SEQUENCE CHARACTERISTICS:
 40 (A) LENGTH: 638 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1084:

AACACAGGT AGCGTCATTA GCATTAGAT TTTATTGCCA AATTATATAA CGATTTATAC 60
 ATCAATAAGA AAACAATAGA TGAIGIATCT GCAGTTTCTG AAGTGAAATA TGATATTAAA 120
 50 TCACAAATGA GTGATGATGA GATTAAAGCGT TTAGAGGAAC AAGGACTTCA AGCTATTAAA 180
 GAAGGACAAAT TTGCAGTACT TTTGATGGCA GGTGGTCAAG GAACAAGACT TGGTTACAAG 240

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TTA AAAACAT TGAATCATCA ATCTGGACAT ACGATTCAAT GGTATATTAT GACAAGTGAT 360
 ATCAATCATG AAGAAACTTT AGCTTATTTT GAAGCACATA GTTATTTTGG ATATGATCAA 420
 5 GAAGCAATCC ATTTCTTTAA ACAAGATAAT ATTGTGGCGC TTAGTGAAGA AGGGAAGTTA 480
 ATTTTAAATC AACAGGGTGG TATTATGGAA ACGCCGAATG GTAATGGTGG COTGTTTAAA 540
 TCTTTAGACA AGCAGGATA CTTAGAAGAA ATGTCTAATA ATGGCGTTAA GTCATATTTT 600
 10 CTTGAATAAT CATCGACAAT GTTTTCAGTA ACATGTTG 638

(2) INFORMATION FOR SEQ ID NO: 1085:

(i) SEQUENCE CHARACTERISTICS:
 15 (A) LENGTH: 618 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1085:
 ATTGCAATAT TATCGCTTG GTTCAACACG TCATCTTTat tAaTAcCATT TATTGgAAAt 60
 25 tCcACcEATT TCCcGGgCTt CtTACTTCCc TTTATAAAAC TGcCCATTtA ATGAATACTG 120
 TTTAGCTTCA TCTATTGCTA CTTCCTAGT TTTACCAATC ATTTCCTTAG GCGCTTTGAA 180
 ATTAAC TAGC TTA TTTTAT CAGTGTAGCC AGCAAGAACC TGATCATCTT TTTTACTACT 240
 30 TCCTTCACAA AGTACTGTTA CAGTTTGTCC TTCGTACTTA CTCATAGCTA TTTGTGAATA 300
 ATGACCAACT TTTTATTCA AACGTTGCAA TCGTTCCTTT TTGACATTtA AAGGTACATT 360
 ATCTTTTCATT TTAGCAGCAG GGTACCATC ACGTTGTGAA TACAAGTACG TATATGCATG 420
 35 TTCAAAACCA ACTTCATCAT ACAGAGTTAA AGTTTCTTCA AATTGTTCTT CTGATTTCATT 480
 TGGATACCTT ACAATAATAT CTGTAGTTAA TGCTACATTA GGAATTCTAT CTTTGATTCTG 540
 40 TTTTACTAAA TCCAAATAAC TTTCTCGTGT ATATTTTCTA CCCATTATnT TTAATACTGC 600
 ATTATTTC CA GATTGAAC 618

(2) INFORMATION FOR SEQ ID NO: 1086:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 502 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1086:
 55

CAGCAATATC ATGATCAGTT TAATTCATCA AGAAAGTCTA TCTATACTTT TACAGAAACA 120
 GTTCAACCAA ATCGTGTTAT TTATGATTTT TATGATTATG ATCCGTATCA ATTAGCAGCA 180
 5 AATAATGCGA AAGCATTAAA GGATCATATT GAACAAAAC TTAAC TTAA AGTCCAAAGT 240
 ACCGGTGTTA KTTACTTTAG TGATGGTACA GTTAATATCA TTCAAGGTTT TGAAGAAAGA 300
 GATAAATATG TTGATACAGT TTCAACAAAA TCTTCGTTAC GACGTATTAT TAGCGAACCA 360
 10 nAGAGCTATC TAAACACCCCT TTAATAAAG AACAGGTTGA nCAAATCACA GCTATATTCA 420
 AGTAAAATCA AAGGCATAAT AATCCATTAC GCTCGATACG CACTATGGTT ATTATGCCCT 480
 TAAATTATTT CTATATATAA nT 502

15 (2) INFORMATION FOR SEQ ID NO: 1087:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 429 base pairs
 (B) TYPE: nucleic acid
 20 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1087:

TTGCCTGATG GACGATGGCC ATCACAGACT GAGTTTAGAT TGTCTTTAAT GCAACAACCT 60
 GCTGTAAACC AAATTACGAG TGGTAATGAA AGAATAAGTT CAGTTAATGG GCCACCAGGT 120
 30 ACAGGTAAGA CTACTTTAIT AAAAGATATA TTGTCATC TAGTAGTTGA nAGAGGTAAA 180
 GAGTTAGCTA AACTAAATAA TCCTAAAGAT GCATTGTCA AACAATAAAT TCATGAAACG 240
 GATGATAAAT ACGTATACTT ACTAAAGGAn nTATTGCCAA ATATAAGATG GTAGTGCAT 300
 35 CTAGTAATAA TGGAGCTGTT GAAAATATAT CTAAGATTT ACCGAAAATT GAAGAAATTA 360
 TAAGAnATCC CGAAAAATGT AAATCCCTA AATATGAACA GAATTATGCA AATTATGCAC 420
 ATGAATTAA 429

40 (2) INFORMATION FOR SEQ ID NO: 1088:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 611 base pairs
 45 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1088:

TAAGACCTAA TATTTTGnC CAATACTATG GTGCAGGTnA TTTATATATG ACACCAACAG 60

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ATCCATTATT ACATGAGITT GGTACGAAAA AGTATCCAGA TGAATATCGA TATGTTTCT 180
 ATGCTAAGCC AACATTGAAT AGACTTAACG GGGGATTCTT TGGACAAGTC TTTACTGTTT 240
 5 ACTATAATGA TAAGTATGTA GTTGACTTGT CATTAAATGT AAAAGGAAAC AATGAAGTTC 300
 GAATCAAACA TATTATAAT GATATTTTAA AACAAAATAA ACCTTACAAT ACGAAGGGTG 360
 TTATTGTTCA ATAATTAATA TAGAAGATAT AACATGTATA TGGCATTAA GATCGACCT 420
 10 TATCTGACCA GTATACGAGT TATATCTTCT TTTTATAGT GGTAAAAAGT TTAAGTATA 480
 AGGTGGAAGA AGGATGAGTT TAAAAATATG TGTAACTGA TAAAGGGGA nATCATTTGG 540
 15 TGAGTTGGCA TCAGnCTAAA nTGAATGAAG ACGAATACGT TGGTCCATGC GTGGGTGTA 600
 TGTCTTCTAA A 611

(2) INFORMATION FOR SEQ ID NO: 1089:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 644 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1089:

CTGGATAATC GCTTTAATAT GATCAATTGT CTTTTCACIC ATATTAAAGCT TATCTAGCCC 60
 30 TTTTCATTTA TTCATACCTG GAATCATTTT CATAATATCA TCCAGTGGTC CTAGATTTTT 120
 CACCyGwTCA AGTTGTTCTA AAAAATCATC TAAAGTAAAC GATGACTCAC GCATCTTTTT 180
 35 CTCTAAATCT TTTGCTTTTT CTGATCCAC ATCTTGITGC GCTTTTICAA TTAACCTTAA 240
 CACATCACCC ATACCTAAAA TACGTGATGC CATAOITCA GGATGGAATA GCTCTAAACC 300
 ATCTAACTTT TCACTCATAC CAACAAATTT AATTGGITTT TGTGTCAACG AACGAATAGA 360
 40 TAAAGCTGcA CCACCACGTG tATCACCATC TAATTTAGTT AAGGTAACAC CTGTGACATC 420
 AAGTTGATCG TCAAAAGATT CTGCAACATT GACAGCATCT TGACCCGTCA TTGAATCGAC 480
 AACTAACATA ATTCGTTTG GTTTAGCAAT GTCTTTTACT TCTTTTAATT CGTTCATCAA 540
 45 TGCCTTCATCG ATGTGTAATC GACCTGCTGG TATCAATGGA TTACAAAGTC TAAATGTTCT 600
 TCTTTAGCAn GTTTTAATGC ATTAGTTACA ATTTGGTIGT GGCC 644

(2) INFORMATION FOR SEQ ID NO: 1090:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 207 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1090:

5 GATCCTATCG TTTTAGTGCA TGGTTTCAAT GGGTTTACAG ATGATATTAA TCCTTCAGTG 60
 TTAACCTATT ATTAGGGCGG TAATAAAATG AACATTGCGC AAGATTAGA AAAAATGGTT 120
 ACAAAGCTAT GAAGCAAGTA TAAGTGCTTT TGGAAAGTAAC TATGACCGCG CATTGAACTT 180
 TATTATTATA TCAAAGGCnG TCGnGTA 207

(2) INFORMATION FOR SEQ ID NO: 1091:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 212 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1091:

20 GACTCTAGAG GATCCCCGCT CAAATGCCAT TTGGTGATAT TCGTGAAGCT GCTGGCGAAA 60
 AAACATTTAA TCCAGTGGAA GATCGTTTCG TAATAAAAAA ATAATCAATA TATTGTTAGG 120
 25 AATGGGACAG AAATGATAAA GATTCATTAG TTATTCATTA TGTTGTAGTT CTTACACATT 180
 AGCCGCTGCT AATnGCAACT TAAGAnTAGG TT 212

(2) INFORMATION FOR SEQ ID NO: 1092:

(i) SEQUENCE CHARACTERISTICS:

30 (A) LENGTH: 208 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1092:

40 TGGACCTGCA ATTGGITGCC AGCAGCAACT TTAGCTTCAT AGCTAGCTTT GTGAGCAAGT 60
 GGTAACCTG GAACGATATC ACCAATTGCA TAGATATTGC TGATAGACGT ACGGCTTTGT 120
 TTATCAACnn CTAATAATCC ACGTCAGCGA ATTTAACACC TAATTCTTCT AGGCCTAATT 180
 45 CGTCGTGTTT GGACGACGAC CTACATTA 208

(2) INFORMATION FOR SEQ ID NO: 1093:

(i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 902 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1093:

	CITAAAAGTT	GTATCAATAA	TGATTGTATT	AGTTGCATGC	TTATTATATA	TGAATCATAG	60
5	TATTGATTTA	CCTACCCCTA	TTATGATTTC	AATTTTTTCA	TTTGTGATAT	TTGATAGTGT	120
	TGAAAAATATT	AATAGTGCTG	CACACGTACT	TGAAATGATA	GATATGACGA	TAGATGATAT	180
10	TGmAAAGATA	AAAAATGCTC	CAGAACTGGA	TGAGAATGGA	AAAAATTTGA	CGATTAAAAA	240
	TGAAAAATATC	GCTTTTCAAA	ACGTGAACTT	TTTCATATGAT	GATAAACAAAG	TGATAAAGAA	300
	TGTGAATTTT	GAGATACCTA	CACAAACATC	AACAGCAATA	ATTGGACCTT	CAGGAAGTGG	360
15	GAAATCTACA	TTATGTCACT	TACTCTTGCG	CTTTTATGAT	ATCGATGATG	GAAATATTCG	420
	CATCGATGGT	GTGATATTA	AAGATATGAC	ATTAAGTAGC	TTAATGTGCA	AAATTAGTGC	480
	AGTATTTCAA	AAGGTGTATT	TATTTAATGA	TACGATTGAA	AATAACATAT	TGTTTGCAA	540
20	TCCAGGTGCA	ACGAAAGAAG	AAATATTTCG	TGCCGCGAAG	CAAGCATGTT	GCCACGACTT	600
	CATCATGTCA	TTACCTGAGG	GATATCAAAAC	AATGCTAAAT	GA AAAAGGTA	GTAATTTATC	660
	TGGCGGAGAA	AAGCAAAGGA	TTTCTATTGC	TAGGGCGATA	TTAAAAGATG	CACCAATAAT	720
25	TATTTTAGAT	GAAGCAACTG	CAAGTATTGA	CCCTGAAAAAT	GAACAGCTGA	TTCAAAACGGC	780
	AATTAAATGAA	TTAAGTAAAG	GCAAAACAGT	AATTACAAT	GCACATAAAC	TTGAAACTAT	840
30	TAAAnATGCA	GATCAGATTA	TAGTGCTCAA	TGnAGGTGAA	ATAATTCAAA	AAGGTAGTCC	900
	TG						902

(2) INFORMATION FOR SEQ ID NO: 1094:

35	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 632 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

40

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1094:

	ACGCAAGGGA	TATGATTAAA	CACCATAATA	TACAATCACC	TTTTTTATAC	ATGAAGCAC	60
45	TAATAGAATC	GATTCAITTA	AACATAAAAC	ATGATTTTAA	CCAGCAAGAT	TTGATTGAAA	120
	TACCAATTGT	GTATGGTTGC	AAATATGGTC	CGGATTTAGA	ATCACTTTTA	AAACATTACA	180
50	AAATCAAGCT	AGAAACTTTT	ATTGAATTAC	ATTCTAAGGC	GCAATATTTT	GTTCGATGA	240
	TGGGATATTC	ACCTGGGTTT	CCTTATTTAA	CTGGATTAAA	TAAGAAATTG	TATATTAATC	300

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GCGGTATTGT AACTACGGAT ACAATTAATG ATTGGTTAGT TATTGGTAT ACACCATTAT 420
 CACTTTTAA TCCGAAAGAA TCAGATTTCG CACGCTTAAA GTTAGGCGAT AATATTAAAT 480
 5 TTAGACCTAT CAATGAAAAA GAATTAGAAG TAGGAGCGTT TAAAGATGTC AATCATAATT 540
 GAAAAAAGTG GCTTATTACG TAGCTTTCAG aCTTTGGCAG AAGGGGATAT GAACATGATG 600
 10 GTGTAATTCC ATGTGGTGCA CTGATACTT TA 632
 (2) INFORMATION FOR SEQ ID NO: 1095:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 212 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1095:
 20 GCAACACGAT TGCTAAAAAA TGATATACCT ATTAATTGTT GCAACACTGT TTTATGTGAT 60
 ATACTGATCA TGGCATTGTG GCGGATTGAT GACCATACAC ATGACGTGAC AATGATAAAT 120
 25 CATTGCCACT ACTTGTTAAA ACAGCAATTT CTCAAGTGA AGTGGTGCh ATATATTnCG 180
 CCAATAATAT GATGGATGGT TTGTTGCTGA AA 212
 (2) INFORMATION FOR SEQ ID NO: 1096:
 30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 35
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1096:
 40 AATGAAC TGGTATTnCTTT TGCCATGCTT GCCCACTGCC ATGCATTTCG TGAAGAATGT 60
 TTTTGTAGAA CCGgCTTAAG AATTGGAAGT TTGTAGTAGT ATCTAAAAAG ATTACTTGGT 120
 GATACTCAGG ATGAATTCCT TGTTcATTAT TTTCAGCTCC TTGCCCCGTA ACCATCTGGA 180
 45 ACAGAGTTAT TTGTGAGTTT TTACCCAATA CTGtGTAATT ATAAAGGTAA TTAATTCAA 240
 ACGCAAGCCC CTATATAATG TTTATTAAAT TATAGGTGA CCGTtTTTAG TACTTTCTTC 300
 TGCAGACTTT TGTAAGTCT TGAAGAAATC TcATTATTCT TTAGACCTTT TAAGTTTGGC 360
 50 AATAAATCTT TCAGTAAAGT CAGTTGAGTC AGTGAATAGA TTTCTTAATT GCCATAATGT 420
 GTCTAATTCA GATTACTTA TCAACAATn TnCTTTACGC GTTGAA 466
 55

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 208 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1097:

10 TTTTGATCCA ATAGGCGGTT COGTGTTATC ACTGACAACT TTAGTTGTAG CTCATCTTT 60
 ATGTATTCTT TCGTTAAATC CTTCAGATT TTAGTCGTGG GATTITTAACC TCAGGATGTT 120
 15 CCATCATGTC TTGACTATCA AGTCCTTnTA CACGTGTCCTT TAATGTATGC TTGATTGCGT 180
 nCCCTTACTT TTTGAATAGG GGTAGTAA 208

(2) INFORMATION FOR SEQ ID NO: 1098:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 571 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1098:

CCITCAACGA AATAGCATA TTGACCATAA ATATTATGAA TTGTTTGTTT AACATCTTCA 60
 30 GTTATTGGAT CTGACTCAA AAATACATTA AATACCTCAA TACCAAATTT ACGTGACATT 120
 TCTACAGCTT CATACGTATC AATAATACCA TCTTGACTAT AATTAAATGC AGACGGTTTCG 180
 35 CGCTCTGAAA ATAnGATTAA AAATCGTTGA TGTTGATTTT GACGCATTAA TCGTTCACTT 240
 GCAACTCTAA TAGCAACACC ATCAGGATTA TCATCTTGAG GTTCAAGTGC CATAATACGT 300
 GGGCCATCTT TITCAAAGGT TGAGTAATCA TAGTAAATAA TTTCATTAAT GATATTGTTG 360
 40 TGTGCGCTCT GGTCTGAATC AAAGGCATCC TCACTGAATG ATAAAAATTTT ATGTTTAATG 420
 TTCAATGCTT TTAAGTCTC GTGGAATAAC ACTACACCTT TCTTCGTTTC AGCCATTTTA 480
 TCATGCATAC TTGCTGgAGC CATCAATTAA CAATGTAAAT GTnCGCATCA AATGATTnAC 540
 45 TTAATCTTG TTTTTGTAA AACAATTAT A 571

(2) INFORMATION FOR SEQ ID NO: 1099:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 214 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1099:

5 TCGAAGTGAA CAAGTCATTA ACTTGTTTAA TACACGTGGG GCACAAGTCG AAGAAGTTTG 60
 GGTGAAGGGC CATGAAATTA CAGAACTGG ATTAACGGCT GGTCAACAAA TACTTGGGAA 120
 ATAACAGTTC TATTAAGAAG CGGACAGATG GAAAAGATT TACCTTTCAT CTGCGCCTTT 180
 10 TTGATTTGAA GGCGGACCh AATTTACCAh GGAA 214

(2) INFORMATION FOR SEQ ID NO: 1100:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 1158 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1100:

20 CACCGTATTG TACAAGAAT TTAAGTTTT CGATTCTTn TCTTAATTTA TCATCAGCTA 60
 TCGGTTTGGT TGGGATAATT TTAATTATGTT CCATTTTAC TGGATATTCT TTTTCTTTAC 120
 25 TACGTGAGTA TCCTnTTTTA TCTTCCCATTA ATTCCCTCAC AATAAATTCA CCTTTTGTCTG 180
 TTCTGGTATT GCGGCTTACA TACAGGACCA ATCCTCTGGA TTCCaTATtC TTTCCATTTG 240
 30 TTCTATTGTT CATTTTIAGAG TGAATTATCC aAGTGCCCTT GTCGCCCTTT TCAAACTCTT 300
 GATCTCGAAA GCCTTCCTTA TCATAAAAGT CTTCAAGATT TTTAGTTGGA TACAGGCTCA 360
 ACGTTTTGTT GAAGTTTTCT TTAATTTGTT TATCTTTACT GCTTTCTTCC TTTTTCATTTC 420
 35 CGCAAGCCCC TATAAAAACA GCTAATAATA CTAATACAG CCAGAGCCTC AACCTTTTTG 480
 AGTGAATCAT CATTTACAT CCCCATTTTT ATTTTGTATG CAAAGTTAAG TCCAAATTC 540
 AATATTAATA ATATTAGAGG aAaTTtATG ATTAAaTCT CGTGGATTtT AATTGTTAGT 600
 40 TGTATTTTTT ACATATCAAC ATCACAAATT ATTTAAAAAG CGCAAATATC TTTATAATTT 660
 TTATTGGCTT AACCAACTAA TTAATTAAGA TAAATTGCGC TTATATTTAA AATAATAACA 720
 CTGAAACTCA ATGTATTTCAT TTATAAAAAT TGATGTTTAA ATACAACCTT ACTAACATTC 780
 45 ATTTTTCGGT TTACATTAA TKGTTAGATA ACGATATATA TCATCTCTTA CAGCTTTATC 840
 CAGTGCTAAA TCCATCGTTA CTAAGTTTGA ACCATTCGGC ATTTTATCTT GCTTTCTTGA 900
 50 ACCTTCTATA TATCCAGCAG TTCTAAATA ATAAAAATAT ATACATCAT CATCTTTTTT 960
 CGTACAAAAA ATATACATTT TAATTCCTTT TGCTCTATGG GACAAAAATT TCTGAACTTC 1020
 TTTTGATTCT AGCGTCTAT TAGATTTAGT AAACCATTTT AATTCATCTT GACTTAAAAA 1080

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TGGCATTCT TGGCTTTT

1158

(2) INFORMATION FOR SEQ ID NO: 1101:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 353 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1101:

CCAAATGCTA TAAATGCAA AATnGCTAAT GCGATATTTT TATAGAAAAT ATCTGGTCCT	60
AAATTTTGTA AATACGTGGT AAACGTTGCG TATGACAAAT AGCCAATCAC TACAGCGTAA	120
ATATGTGAAA TAATTAACC GAACCGTCTC GCTCTTTCAA AAACAAGTGT TGCATAAATA	180
ATAATCAGTA ATCCAAATGA CAAGGGTTGT CGCCAACTTA ATGGTAAAAA CTGACCTAGA	240
TAGCATCCCTA TGCCAAATAT AATCCAATAA TACATAAAAT AAAGCCACAC TTTACTTAAT	300
GATTGAGCAT GCTGGTTTGT ATGATAATAT GAATGATTTG TATTTGCGA CAA	353

(2) INFORMATION FOR SEQ ID NO: 1102:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 194 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1102:

CCACACGTC TTCCACCGGA TAGGTTTCGA GTCGGGGGA ACCGGGCAGG GCGGTGACCA	60
CCCCGTGCGG TGTCTTCTG GCCAGCTTGT TTGCGAGCTT GGCCAGCGTC TTCGTGGGGC	120
CAATGCCAC GCAACACGGG ATGCCACCC ATTGGAGGAT CTGGGACAGG ACCTGGCGGG	180
CCATCGCTTC GntG	194

(2) INFORMATION FOR SEQ ID NO: 1103:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 220 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1103:

TCGCTTTTGC TTTTGCATCA GGTATGCTG CTATTTCAGC ATACTTTTG ACTTCAAAT 120
 CTGGTATCA TGTCATCITA CCCGATGGAT GTATATGGG GGTACTTTT CGTCTCACTG 180
 TGGCAAATTT TGGATCGATT TAATATTGAA TTTTACAACC 220

(2) INFORMATION FOR SEQ ID NO: 1104:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 235 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1104:

GGACATTGTA TCGACATTTC AAAGATAAAA GCGATTATG CTACTACGTC ATACAAAGAG 60
 ACCTTGATAT TTTTATCACT CATTTTAAGC AAATTAAGA TGACTATCAT TCTAATTATG 120
 AGGTTATGCA AGTGTCGTCA TCGCTTTTAA ATAAGTCATA ATAAAAATCA AATAATTCTT 180
 GATAAAATGC GCTTTGGTAA AAACGTAATT TATTGTTGCC TGCTTCAATA CATTG 235

(2) INFORMATION FOR SEQ ID NO: 1105:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 229 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1105:

GCGGGGGCAG GTAAATCCAC TTTGACACAT CTTATTGCAG GTGTTTATCA GCCAACAATA 60
 GGTACTATAA GTACAAACCA GCGTGATTTT AATATTGGGA TACTTAGTCC AAGAGCCCTAT 120
 ATTTCAGGCT CTATAAAAGA GGATATTACG ATGTTTAAAG ATATAGAAAA TAATACTAAT 180
 GAAGAAGTGC TAGACGAAGT AGGGTTTATT AGACCAAGTG CCATCCTTC 229

(2) INFORMATION FOR SEQ ID NO: 1106:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 596 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1106:

	rAATTAAAAA CAAATTITGA TGAAGTAAAT GTAATCGCGT CAACAAACGG TAGAAAGTTT	120
	ATTAATGGTG AAATATTAAG GCAATTTTGC GATAACTATT ATGACGAATT TGaAGACCCT	180
5	TTTTTAAATC ATGTAGATAT AGCAAAATAA CATGACAAGA TTATTATTTT ACCTGCGACT	240
	TCTAATACGA TTAATAAAAT TGCmAAATGGT ATATGTGACA ATTTATTATT AACTATTTGT	300
	CATACAGCTT TTGrAAAAC TCTATATTT CCAATATGA ATTTACGAAT GTGGGAAAAAT	360
10	CCAGTTACTC AAAATAATAT TCGATTATTA AAAGATTATG GTGTATCAAT ATATCCAGCA	420
	AATATTTCAG AAAGTTATGA ATTAGCGTCA AAAACATTTA AAAAGAATGT TGTCGCACCT	480
15	GGAACCATAT AAAGTTCTCG gAATTCAATT GaGATTAGAA TATGGAAAAAT CaTAAAGCGC	540
	GCKATTGATT AGTTTAATGA ATGATTGGAG TChTTTGAAG ATnCGATTAT CAATGG	596

(2) INFORMATION FOR SEQ ID NO: 1107:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 673 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1107:

	ACTAGCTAAA AATAATATTC TATTCTTTTT AACATGGGCA GTTCCAGCGG CAATTAGTGG	60
30	TATTATATAT AAATATATAA ACAAGGCTAC GGTAGAAAAGA TTTTAAAAAT TAGTATTTTT	120
	CATATTTTCT GTTTCATTTA TTTTGTAAAT TTTAATACCA AAATTACAG GTGAGATACC	180
35	TAGCTATATC AATTITGGAC TTATGAACTA TCAAAACGCT TCGTACCTTT CAGCATTTAC	240
	TGCCGGATTA GGCATTATAT TCATTATGAA AGGTTCAAGT AAACATAAGT GGATATATGT	300
	TCTATTACA ATAATTGATA TCCCTATTGT GTTTATACCA GGAGGGCGTG GAGGTGCTAT	360
40	TTTATTAATT CTTTACGGCT TATTTCGATT TATACTTATT ACGTTTAAAA GAGGAATACC	420
	TATCGCAGTA AAAAGCATTA TGTATATTTT TGCATTAAAG ATATCTAGTG TATTGATTTA	480
	CTTTCTTTTT ACAAAGGTT CGAATACTAG AACATTTTCA TATCTACAAG GTGGAACACT	540
45	TAATTTAGAA GGTACTTCTG GgAAGAGGAC CGATTATGA AAAAGGTATT TACTTtATTc	600
	AACAAAGTTC GTTATTAGGC TATGGGCCAT TTAACtATtA TAAACTAATC GGAATATATC	660
50	CACATAACAG CAT	673

(2) INFORMATION FOR SEQ ID NO: 1108:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 506 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1108:

TCACAGTGGC	GGCACAAAAA	GTAAGTGGAG	ATTATTTTAA	TTTAATTGAC	CATAACGATG	60
GCACAATGAG	CTTTGCTGTT	GCAGATGTCA	TTGGAAAAGG	TATACCAAGT	GCCTTAGCAA	120
TGAGTATGAT	AAAGTTTGGC	ATGGATTCTT	ATGGACACTC	ACAATTACCG	AGTGATGGTT	180
TAAAACGTTT	AAATCGTGTT	GTGAAAAGA	ATATTAATCA	AAATATGTTT	GTCAATGT	240
TTTATGGTTT	ATATGAAGAA	ATGAACCAT	TATTGTATTG	TAGTTCAGCT	GGTCATGAGC	300
CTGGATATAT	TTATCGCGCT	GAAAAAGAAG	AATTGAAGA	AATTTCAGTT	AGAGGTAGAG	360
TGTTAGGAAT	CAGTTCACAA	ACACGATATC	AACAACAAGA	AATCCAATA	TACCTTGATG	420
ATTTAATAT	CATTTTAACG	GATGGTGTGA	CTGAAGCTAG	AAAAGTGAAG	GTACCTTTAT	480
AGATAAACAA	AAACTTTTAG	AATATA				506

25

(2) INFORMATION FOR SEQ ID NO: 1109:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 552 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1109:

TGATATTGAA	AAAGATGTCA	TTGTTAAAGC	ACAAGAAAGT	AAAATTGCTC	AAGTTATCAC	60
GAATTTGITA	ACGAATGCAA	TTAACTATTC	TTATGAAGAT	CGAGATATTA	ACGTTCTGTT	120
GTATCGAGAT	GACTTTCTGT	TCATTTTCTG	AGTACAAGAT	TTTGTTATAG	GTATTAAATT	180
AGAAGACCAA	CAACGTATTT	TTGAAAGATT	TTATAGAGTA	GATAAAGCAC	GAAGTAGnAG	240
ATTCTGGTGG	GACAGGTCTT	GGATTATCAA	TTACAAAGCA	TATAGTAGAs	GCCCAACCAAG	300
GCAATATTGA	AGTGAATAGT	CAAGTTGGCA	AAGGCTCAAC	GTTCAAAGTT	ATTCTAAAG	360
ATTATAAAGA	ATAAATTA	AAGTGGTAAC	AGCGCGTGTA	TTTTTCACGA	AGTTGTTGCT	420
GCTTTTTTAT	TTGTTTCAA	TCTCTATTGG	TATTAATTA	GAGTTAATGA	AGTGAATAAA	480
ATTGCTGTGT	CAATTTTGT	ATTGTATAT	GTGATTTTGT	AAGTTATTAAG	TAATAGATTG	540
TTGTGAATCA	nG					552

(2) INFORMATION FOR SEQ ID NO: 1110:

55

(A) LENGTH: 244 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1110:

10 AACAGATCAA CAATTGCAGA TCAATTACTC GTCATATTGA TCAATTATCT CTGACAAOGA 60
 GTGATGATTT ATTACGTCAT TGATTGATCA TCACAAGATA AGTCGCTATT GATTTCCTCA 120
 TTTTACAACG AaATTAGGAA AGCTGnAGCA GATAATTGGC TAAGTTGGAC GATAAAGGTT 180
 15 ATCAATCGCC AATCGTTGCC ATTGAAGAAC TTTTGCTCAC TGGCGCACGC TTCAGATGAT 240
 ATTT 244

(2) INFORMATION FOR SEQ ID NO: 1111:

20

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 825 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1111:

30 AGTATTGAGT GTTTTGATTT AAGAGACTTG GAAAGTGAGT CAATAATCAA AATCTTACTC 60
 AATACITTTA TTTTGGTACT CGCAATTTAG ATTTGTTAAC TAATTTTTTC GCTTATTATA 120
 AAACGAAACA ATCAAGTAAA CGATAAAGCC TACAAAGATA CCCAATAAAA TAGATAGTAC 180
 35 TGCCGTCAC TTAATGGTA ATTTGAAAAA TATTTGTAGG AAAATmCCAA TGATAATTGC 240
 GATAATTACT GCAATaATG TGACTGTATT TTCATTGAA ATGTTTCAIt ATttTCACTC 300
 CTLaACAATA ACATTATATC ATGCTATAGC TTTCCAAAAT ATTGAAATAT GTAGATATGG 360
 40 CTATTGACGA TATTICTTAA CTTTATATG ATTAATCGGA ATGAAAAAAG AGAAGTAGGT 420
 GGCATATGA AGTCAATAAA ATCGCTTGCT ATGATTGTGG TAGCCATCAT TATTGTAGGT 480
 GTATTAGCAT TTCAATTTAT GAATCATACG GGTCTTTCA AAAAGGGGAC GAATCATGAA 540
 45 ACTGTACAAG ATTTAAATGG TAAAGATAAA GTACATGTTT AAAGAGTTGT GGATGGTGAT 600
 ACATTtATTG CAAATCAAAA TGGTAAAGAA ATTAAAGTTA GGCTTATAGG GGTGATACG 660
 CCAGAAACGG TGAaACGAA TACGCTGTGA CAACCATTTG GCAaAGAAGC ATCAAAATTAT 720
 50 AGTAAGAAGA CATTAAACAA TCAAGATGTT TATTAGAAT ATGATAAAGA AAACCAATnC 780
 GCTATGGTAG ACCATTGGCG TATGTATGGA TAAGTAAAGA TCGTA 825

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 621 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1112:

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10  TCCCTATAAA TCCCCACAAA AAAAGGGTAA ATCCGAAAGT CAAATTTCAT CTCITTATGC      60
    CAATCAACGA TCGATTTACC TTTTAAATTT TAAATGTAT CTGTAATACT CTTAGCAATA      120
    TTGTATATG CTGCATCTTC CATAGGTGGA TTGTGTAATC CTGCACGCAT GTCACGATAG      180
15  TAACGTGTGA ATGGTCGATT CATTTCTAAG CTTTTCAGAC CAACTATTCT CATCGCTAAA      240
    TCAATCACTT CAAGCCCTTG ATTCATTACC ATCACTTTAC TCGCACTTGT TGGATTTCCT      300
20  ATCTGACTGT CATCTTTATA TTGTTGATAC CCTTTGCTG TACTCCATAA AAATTGTCTC      360
    GCACATAACA ATAGCGTTTC CATTTCCCTT AAATTTGTGT GCACAGTTGG CAATGTTGCA      420
    ATCGTTCCCT CAATACTATT AGGGCTATGT TGGATTGCAA AGTCTACAGC ATAATTCTTA      480
25  GCAGCTTGTG CTATACCTAA ATAACAGCTT GGTATATGCA ATATCCAACC ATTTGGCGCT      540
    TTACTTTTCT CTGTTTCCAC TAAATGTTT AATGGTACTT TTACATCATT TAATATTAAA      600
    TCATGACTTT CTGTCGCTCG C                                          621
  
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(2) INFORMATION FOR SEQ ID NO: 1113:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 619 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1113:

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40  GTACCTTGTT TTTCAGTGT AATTTCCTAA ATATAACCTG GTGTAATACC GTATTGTTTT      60
    GAGAAGTACT TGAAGGCACC TTCACTTGTA ATCATGGCAT GTTGTCTTC TGGAAATGCA      120
45  TTAAATTTGT CTTTACTGTC TTTACTGTCA TTATTTAATT TTTCCAATG AGCAATGTAT      180
    TTGTTACCTT GCTTTTCATA ATCTGCTTTA TGTTTTTTGT CGTTATCGAT AAATGTTTGT      240
    TGAATTTGTT TTACGTATT AATACCGTTA TCTAAACTTA ACCATGCGTG TGGATCTTGT      300
50  TTATCTTGTG TGCCTTCTTC ACCGTTTAAA TAGATAGGTT TAACATCTTT TGACTCTGCG      360
    ATAACTTTT TATCTTTTAA TGATTACCA GCCTGTCTTA AGGCTTTTTC AAACAACCG      420
  
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ATATCyTTAG GTTtAACyTC aTAtTCaTGA GGATCTkGAC CAACAGGTAC AATAChATGA 540
 ATATCGACGT TGCTCCACC AACATTTTtA GCCATATCAG ATAGAATTGA ATTCGTCGhT 600
 5 ACTACTTTtA ATTtGCCAT 619

(2) INFORMATION FOR SEQ ID NO: 1114:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 549 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1114:

GAAACCGCA CGACAATGAA AAAAGATATC CGGTTAAAT GGTCGATAAT AAAATCATTc 60
 20 CAACAAAAGA AATTAAAGAT GAAAAATAA AAAAAGAAAT CGAAAACtTT AAGTTCtTTG 120
 TTCATATGG TGACTTTAAA AATTGAAAA ATTATAAGA CGGAGATATT TCATATAATC 180
 CAGAGGTGCC GAGTTATTG GCTAAATATC AATTAACtAA TGATGATTAT AATGTAAAAC 240
 25 AATTACGCAA AAGATATGAT ATACCGACGA GTAAAGCTCC AAAGTTATTG TTAAGAGGTT 300
 CAGGGAATTt AAAAGGCTCA TCAGTTGGAT ATAAAGATAT TGAATTtACG TTTGTAGAGA 360
 AAAAAAGAgA AAATATATAC TTTAGTGAta GCTTAGATTA TAAAAAAGC GGAGATGTAT 420
 30 AATCATGGCT CAATCAGAAT ATGAATCAA TCCCGAAAA AGAGAGTGAT GAAATGATAA 480
 AACGTGTAAA TAAATTAGTG CTtGGTATTA GtCTtCTGTT TTTAGTCATT AGTAGCtACT 540
 35 GCTGGTTGT 549

(2) INFORMATION FOR SEQ ID NO: 1115:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1115:

TGTtATGCA ACTATTAAAA ATAtAAAAA CAAGACTTA ATTGAATTATT CTTTATATAT 60
 TAAAAAAGGT TTAGTGGAGC CATTtATTGT ATTCTATAAT CAAGAAAAATA TATTCTACAT 120
 50 TAGCAATGCT GTTATAGATA TCATCAGTGT ATCCAAAGAT ACTCTTGATT ATATAAAGTC 180
 AGAATTCAAT GATCACTGTG tTCGCCATAC TGATTtTATA GCACAGAGAA AAGCCGTAGT 240

55

TTATCATCTT CGATGAA

317

(2) INFORMATION FOR SEQ ID NO: 1116:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1116:

ACTATGACTG	CAATGCCAAC	AATGAATGTT	ATTGCATAAA	GCATATGCAT	TTAATCAAGC	60
TTATGTTATT	TAGCAAGGGC	AAGCCACTTC	TCGATTTCATG	GCTTGCCTTA	TTTTATTGTA	120
TATTTTTAAT	TATCGTTGCT	GGGCCCTTGA	TTGACAATCG	TATTAATAATG	GCCTTATTAA	180
GTCACCTTGG	TCTATACGGT	TTGGAATCTT	CTACCCAATG	TCTTATAAAA	GACAAATCCG	240
CACCTGAAAC	ATAACTCATG	AAATAAGAA	ATGGGTATAC	CATTAATnTG	AATCCATTTC	300
CAnTTTATAA	CGTTGTAAAT	GACACATAAT	TAGAATCATA	AAGTTTTTCG	TGGGATATTG	360
AAACTTTTACC	CATACGAGAC	ATCATGGATA	AAAGCGAGGC			400

(2) INFORMATION FOR SEQ ID NO: 1117:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 696 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1117:

TGCATATAAT	GTTCAAACGG	CAATGATTCC	ACTGTATAAA	CCTCTGTGCG	TGGGATGCTC	60
TTAATTGGTT	GTTTAAATAA	CTGAACTCTT	TTTTCATGTT	CATAATGAAC	ATAAATAAAT	120
GCACTAAGAT	ATATCACAGC	TAAAACTAGT	GATGCACCTT	TAATAAAATT	AACATTGATT	180
GACTTATATT	TCGAAATTC	TTTTAATAAA	ATAATTAAAA	TGATTACATG	TATCGTATAA	240
ACAATCAAAA	AATTACCTGG	TTCTATTGGA	GTAACAATGA	CTAGTGTGCA	CGCCGAAACA	300
CATATTGCAA	TAAGTAAGGA	ATATAAAGTG	ATTTGTGTTT	TACGATCATT	AATAGACAAA	360
TAAATACCTA	CAAAATATCGA	AAACGCAAG	TAACCACATA	CAATTACGTT	CACAAAACCA	420
ACCAATCCAA	TATCTGTATT	TTTATTTAAT	AAAAACTGAT	TGTAAAATAG	TAAATAATAA	480
AGCGGTAAAG	TGATAAATCC	TATCATAATG	ATACGACGCT	TTAATATTGT	TAAATGTACA	540

ATCTGACTGA AAATGACACC ATATGGAAGT GACGTTGATA TCATTTCTGC AAATTTTGAA 660
 AAGATACCTT GATTATTGTA AACTTGTTGA TATTCT 696

5 (2) INFORMATION FOR SEQ ID NO: 1118:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 223 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1118:

GCAGTGACAA TCAATAATTT GTAAC TAGAA GATAATAAG AGAAGCTCT ATAGAGACGA 60
 ATTGAAGGTT TGATTTTAAAT GTCTGTTAGT AAGAATCATA TCAATGAGAT GCCTATAGTA 120
 CTCAGANTAT ATTAATAATTA AACCGTCATT AATTGTTTT CCGAAAACCA TTTGTAACCA 180
 TTTTAATGTA GTTGGACCTA CCTACGTTCT CCAATAATCC ATT 223

(2) INFORMATION FOR SEQ ID NO: 1119:

- 25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 265 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1119:

35 CTGCTTTACC TTTTCCAAC TTAGAAATTG CTACATAGGG GCCTTCTGCT TTACGGCCCC 60
 AATTCCAATT CCACATTTC AAGAAATAAG GAGGCAAAAA TGTTTCATATA TGAATTGGAA 120
 TTATTGTGTT TCTATTAGG CCGAGATGCG CCGCGTGCGG CTGCTGGAGA TGGCGGACGC 180
 40 GATGGATATG TTCTGGCAA GGTGTGTTTG CGCATTCACA GTTCTCCGCA AGAATTGATT 240
 GGCTCCAATT CTGGAGTGG TGAAT 265

(2) INFORMATION FOR SEQ ID NO: 1120:

- 45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 329 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1120:

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	CATGACATTA CATGCTTATT TAGGTAGAGC GGAACAGGT AAGCTACGA AAATGTTGAC	120
	CGAAATAAAA CAAAAaATGa AAGCAGATCC GCTTGGAGAT CCAATCATTT TAATTGCGCa	180
5	ACTCAAAGTA CATTTCaATT AGAAcAAGCC TTGTcCaATG ATCCGGAATT AAATGGTAGT	240
	TTAAGAAcAG AAGTGTtGCA TTTTGAACGA TTAAGTCATC GTATTTTcCA AGAAGTTGGT	300
	AGTTATAGCG AACAAAAGTh ATCTAAAGC	329
10	(2) INFORMATION FOR SEQ ID NO: 1121:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1121:	
	ACACCTCTTT TTTAATATAT GTGAACtATA TATAGTGTAT AGAGAGGTTA CTtGTtACTC	60
	AATATAAACa AAAATCAACT TTGTCAAAAT AAATGTGACa AAATTAaATA AAGTGTcATC	120
25	AATGTGACAG TATAGATCAT TTtGCAAAAA GTCAAAACAA AAAAAATTGT TTAGGGATTt	180
	TTCAAAATTT TCATTGTGGA AAATGATTtG nCAAAACAAa ACAACACnTT GTGAGCAATG	240
30	AAGCTTCAAT GG	252
	(2) INFORMATION FOR SEQ ID NO: 1122:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1122:	
	nAATAATAGG CGCCACCTAA TAAACCAGCT GGAATGCCTA TCATTGGTGT TGTGAATGAG	60
	CTTAATACAA TAACAAGTAT TGTTAAAGCA ATGACGTTAT ACCAAGTTAC AGTCAAAATT	120
45	TTCAAACTCT CATATGATTG TTTTACTAAT TCTCTAAATT TCATGATTCA ATCTCTCCTT	180
	TTCTTAAATC AATTAAATGT TATACTGCAT TGCTTAAaAT CAAnATATCT AATGAAGCAT	240
50	CTTTTAATCG TAAGTGTTAA ATGgTTTtTCT TAATCAATTT GTTTGAATGT ATAAAGCAa	300
	TTAAAGCAAA AGTAATGTAA ATGAGGGTGT ATACACAAT TACTACAATA ACCGGCATGA	360
55	AGGAATATTT ACCCATCAAT TTcATAAAATG CGATTGCGCG	400

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 270 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1123:

AAATACAACCT TTTATCATAG TGTAAATGTA TTCTACCAGT ATTGAGAAGT TTTCATATTA 60
 TTCAATACCT GAAATCGCCA TAGTAATATT ACTAAATGCA CACTGCATAT GTTGTTTAAC 120
 AACACAACCT TAAAAATATA TTCTAACTCT ATCTACGAAT GTACTTAAAT ATCATAACAA 180
 TCTATTCCAA ATCGAATTAC ATTATTAGCT ACCTTAAAAA CCAACCCGAG GCCTTAGGCC 240
 TCGGTTTAAA TATATATAAC GAGCGCATG 270

(2) INFORMATION FOR SEQ ID NO: 1124:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1124:

GGTCTTCTGT ATCAAATTAT ATTATGAGAG TTAGACTCAG TATTAATGAA ATCGTTGATA 60
 AAGATCAAGT GCTTGCATCA CAAATAGGTG GATTACTATG ATGTTTAATC AAATTAATAA 120
 TAAAAATGAA TTAGAAGAAT CATATGAATC TGAGAAAAAA CGTATAGAGA ATGAACTGCA 180
 AAATTTAAAT GAACCTTAGGC ATAGAAGCTG AAAAGAAAAAT GAACGTAGTT ATGATGTTTT 240
 TCAATATTTG AAGCACGAAA TGAATTATAG TGAAGATGCC CAAAGGAAAA TGACGAGAAA 300
 TATAGAAGCG TATGAGCAAG AAATCAATGA GATAATTAGA AAGCAAGAAAT GGAAATTAGG 360
 AAGAATATAA AGAAGACTTA AAAAAGTCTT ATGAAAAGCA 400

(2) INFORMATION FOR SEQ ID NO: 1125:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 377 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1125:

AAATATATC GATCATTGAT AATATGTGCT TTACTATTCC AAATAACITTT CAAATTTTGA 120
 TAATATTTCAT CAATACTCTC AATATACTA ACCAGTTTAT ACAACCAITTC GCCATCGACT 180
 5 TTCACATATT TTGGAATCT ATTTCCAAyT TcAAGACGTG TTGGTTCATT TACAAATGTC 240
 CCCAAATTAA TACCACITAA TAATCCAAAT GGAGTTGGAC GTGTGTGACAT TCTAATTAAA 300
 TATTTTAATA AACTTTCTTT AGCATCTCTA ACCTTCTTGT TATCGCCATC AAAATTTATT 360
 10 nChGTAAAG TACAATA 377

(2) INFORMATION FOR SEQ ID NO: 1126:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 227 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1126:

GTACATTAC TGTTCATGTC CACAACGTTT GTCAGCGATT ATCATCATGT TGTATATCT 60
 25 TATTTATAGC AAGTGCATGG TCTGGATAAG TAAAGGTATT CATACTTAAG TAACTTGAAC 120
 ATTGGTTTAG GACTATTTTA ATGGTnCTGC TtnAATTGTT GGCCAACCTGG TTCTTATTTT 180
 AAATATGTAA CTAGCTCTAC GGGTAGTTAC TAAACACATC CTGGTTT 227

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(2) INFORMATION FOR SEQ ID NO: 1127:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 717 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1127:

CCAATGATAC CGTTATAGCA TGTTAATGTT TTTGTACGAA TATAATCTAA AACTTCGAGT 60
 TCATCACTTAA ATTTCCACGT TTCTGCTTTG TTAAACCACA TTAAAGSAGT ATGAATGnCA 120
 45 AAATCTTTGT CCATAGCTAG GCTTAATGTT ACGTTCATTG ATTTTATAAA ACTATCGCGA 180
 CAGTCTGGGT AGCCTGAAAA GTCTGTtTCA CATACGCTGT TAATAATATG CTTAGCCCCA 240
 50 ATTTGATAGC CtagAGCGCC TGCAAACGAC AAGAAAAGTA AATTTCTAGC TGGAACAAAT 300
 GTATTAGGTA TACCATCTTC ATTATTAGTA ATTTCCATAT CATGTTGTGT TAATGCGTTT 360
 GGAGTAAGTT GTGATAATAA TGACATATCT AAAACGTGAT GTTTCATTCG TTGATCTTGT 420

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	AGTTCACCTT CTTTGAAATG TTTTGTGCA TAAAGAGAC ATGTTGTA CTCTTGACCA	540
	CCACTAAAGA CAACGATGGC TTTTTCATTA TTTAATACAC TTCCCATTTT GTAATTGCTC	600
5	CTATCATTA TAATATTAAT AAGAGGTTA ATGGCATTGA TAAGCCCGTT TTTAATTTAT	660
	AAAATAAAAA AAGCCTATCT CCATAAAAGA TAGACGAAAG AAATGGGTTG CTCCTAT	717

(2) INFORMATION FOR SEQ ID NO: 1128:

10	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 595 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
15	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1128:

20	GATTATTGCA ITGACAACTT ATATCTATCT AACGTTAGTA GCATTTAATT TCATTTCGG	60
	GGTTCCTAACT TTACCAGGAT TAGCGGCGTT GGTATTAGGT GTAGGTATGG CTGTAGATGC	120
	CAATATTATC ATGTATGAGC GTATTAAAGGA TGAACCTCGA ATAGGTAGAA CGATAAAGCA	180
25	AGCCTTTTCT AAAGCAAACA AAAGTTCATT CCTAACAAAT TTTGATTCTA ACTTAACAAC	240
	AGTTATCGCC GCAGCAGTAT TATTCTTCTT CGGTGAAAGT TCAGTTAAAG GTTTCGCGAC	300
	AATGTTATTA TTAGGTATTC TAATGATCTT TGTTACAGCC GTGTTCTTAT CAAGATTCTT	360
30	ATTATCATTA CTGTTTTCAT CAAATATATT CAAAAATCAA TTTGGTTAT TTTGGTTAA	420
	AAAGAATAAA CGACATGATA TTAATGAAGG TGTAGATGTT CATGACCTTA AAACCTTATT	480
35	CGAGAAATGG AATTTTGTTA AATTAGCTAA GCCAATTAAT GGAGTAAGTA TTTAATTGT	540
	AGTGTGCGTT AGTATTCTT TATATCTCAA GTAACTTAG GantGantCT CAAGT	595

(2) INFORMATION FOR SEQ ID NO: 1129:

40	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 371 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
45	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1129:

50	ATTTTAACTT TCTAAGAACA AGTTGTCAAG ATTTTCTT AACATATCAT GTTCTGTTAC	60
	AATATTAAATA ATGAATACCG AAAGGACGAA TTGCAATGA AAAGCGTTGG CTTAATCACA	120
	GAATATAATC CCTTTCATTA TGGGCATCAA TATCATATTA ATCAATCTAA AAAACCTTACA	180

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ATCTATAATA AGTTACTCGT GCAAAATGGC TTTCCACGC TGTTTAGITT CGGACTACCA 300
 GCAACTGCAG TTATCACTGG CGnCATTTC GACTGCCGT AAGCGCGTT TTGGTGCGTA 360
 5 CATGCnTGGn G 371

(2) INFORMATION FOR SEQ ID NO: 1130:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1130:

ATGATGATGA GATTATGACT TTGCGAAAGA TATCGGTGCG CCTTATGAAT TTAAACAnA 60
 20 nTAAAGACCA TGTCGTTAC CGGTAGTTAA CTTTCAGCTT GGTGGCGTTG CGACTCCTCC 120
 AAGATGCTGC TTTAATGATG GAATTAGGTG CTGACGGTGT ATCCGTTGGA TCCGGGAATT 180
 TTAAACCAG AAGATCCCGG 200

(2) INFORMATION FOR SEQ ID NO: 1131:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 203 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1131:

ATGAGCTAGT CGATTAAAGT TAATATTGA AAATGAAGCA GGGCATTAA TGCAATAAT 60
 TAAATAAGTT GTCATTAAAG CATTAAAT AGAAATGATT TTAACAGGAA AAAAGTGATG 120
 40 AATATTGGA AAAGATATAT ATCGTCACT GTCTGAGAG ATTAGATTG GGAACCAAT 180
 TTATCCnTGA ATCGAGATG nGC 203

(2) INFORMATION FOR SEQ ID NO: 1132:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 182 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1132:

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ATCTAACAGT ATTGAAATCT TTGTTAGCGT CAATCGACCA TGTATTITTA AGTATTGTCT 120
 CTAACAACCTT AGCACGAGCT CTTAACCCCTT TAGTAAACAA TCCCTCTTTA GntTTAGTAC 180
 5 GT 182

(2) INFORMATION FOR SEQ ID NO: 1133:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 485 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1133:

CAAATTTAGC CAGGnATACA AATACATATA ATAAAACTGT TTGTAAGCTT ACGTTGACAA 60
 TCTGGCGTAA TTGGAAAACCT AATGAAITTT CTCCAAGTAG GTTTTACCTT GTAAACmAAA 120
 TAACAATTCm AATAATATGt AATCACAAAg CGACTAGAAA TCCGGTAATA TGACTAATCA 180
 TATATTTCAAT GTGTaATAAT TTTAACAGCA ATAAATAGAC AACATAATAA TTTAACGTAT 240
 TAATGCCGCC AACAAATGATA AATTTTAAAA TTTCAGCATG CGTTTGTGTT AGTTTCATAT 300
 GTGTACTCCT CAACATCAnA ATATATGCAT AACTACGTTT TCGAACATAC TCGAATATGC 360
 GAGCCAATCC GCTTCACCTT AAATATGCTT ATTTCAATCT TTATACCCCT TCACAGCAAT 420
 TTAGTCTCTT ThcCCTCATC CTTATAGGCC nTATATGTAA CCGATTATCG GGTGGACTCA 480
 TTGGC 485

(2) INFORMATION FOR SEQ ID NO: 1134:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 213 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1134:

CTTGTTTTAT CGACAGATGC TGAACACGCA GTCaaaATAA ATAAATTACA TAATAAAATT 60
 CCAATTAATC TTTTCATAAT ATCATCCTTT TGTTTTTCAA TTGATATTCA TTTTCAATTA 120
 TAAATATTA rAAGAATTAG TCAACGCCTG TGAGTAATAC ACATCAGTAA CATTICTATt 180
 TTCAATTATG ATATTATCTA ATTATTAATT TAT 213

(2) INFORMATION FOR SEQ ID NO: 1135:

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(A) LENGTH: 526 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1135:

10 TGTGACTCCA TGTATTCATG TATCATTGTA CATTGTGAA TTGGTTGAAA ACTGATAGTG 60
 CCCGTTTAAAT TACAGGTA CTGAGGACATG GATTGTGTCG AAAATATGAC 120
 AATATTTTCA CATTGCTCTT CACTTCTCTA GGGAAATTGC TATCTTGATT AATCCAATCA 180
 15 ACCAATTCAC CTAATGGTGT GTCAATCACA AGAAAACTTT GCATAAATTC GTAAAAGCTC 240
 AATACCTCAC CTCGATTaAT ATACTTGAGC CATTaATATA ATACCATAAA AGAATGTGTA 300
 TTTTaCATAA AACTTTTTaT AAAGCAATTT TATAAATCTA AATTTATTGA ATGTTTAAAG 360
 20 AGTTGTGTAT AATGAATAA ACGTGTGAA ATAGTTAGGA TGATGTTAGT GGATATCAAA 420
 CATATGAAAT ATThATTGA AGTCGTTAAG CAnGGAGGCA TGACTAATGC TTCCAAATCA 480
 TTATATATTG CACAACCTAC AATTAGGAAA GChATTAAAG ATATTG 526

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(2) INFORMATION FOR SEQ ID NO: 1136:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 321 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1136:

AGCAAAAGCA ATGATGACAA AAGAACAAGC TATGTTAGCA GATGGAAGTA TTAAACAAGA 60
 TCAATATGAT AAACAACCTGT TATCGAaAAT CGGAAAAATCA CAATTAGATG AATTGTCTTC 120
 40 TAAAGATTTA CAACTTTTAG CTATTTTCC GAGAGATGAA TGCAGGAACA GTTTTAGATC 180
 CACAAATGAT AAAAaATGGA AGATGTTGAG TGCAAAAAGA GTATGGCAGC AGTTTCTCC 240
 45 AGCAACTTTT CCAaATTAC CCAGGTGTTT AACACGTCCT ATTGGATTG GGCCTAGGAC 300
 AATTATTCCA TATGGGCGGA T 321

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(2) INFORMATION FOR SEQ ID NO: 1137:

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 330 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1137:

ATAAATCCTT ATAAATCAT GAGTTGGACG ACTTATCCAC ACAATTATAC TTTTCAGTT 50
 5 CTCTATATGT CAATACCTG TGAATATGTT GCTAAAAATA GTATAACTTT GTGTGTAATT 120
 TCTAATTATC CACAATCTG AAAACTATAA ATGTGCATAA GTGGATAACT TTCCTTCAT 180
 AGAGTATCTG TTAGTGAGTG TATCAAAACA GTTGGGAAA TAATTATATA AGTnTGATATA 240
 10 AGAnCTGTAT AAGGTGTCG AACATTGTAA ACACTCATGC TTCGGACCAA ACTCATGGT 300
 ATGTTATGAA ATTIGATTGC TCGCATCGnG 330

(2) INFORMATION FOR SEQ ID NO: 1138:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 459 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1138:

25 CTTGATAAGG GAAGATTTCG CAGCACCATT CGGGCCCATG ATACCAATTA TTTCGCCGCG 60
 TACTGGTATC GATAAGGAAA TGTTTTAAAG TACATGCTTA TTACCTAAAA ACAGATTTAA 120
 ATCTTTTGT TCTAACAAAC GTTTATACCT CCTAATTAAA AGTTTAGGCT AACCTAATTA 180
 30 ATTGTATAAT AAAGTGAGAA TATTATCAT GTCAAGTAAA TTCGTGATAT AATATAGACA 240
 ATGTATGTGA GGTGAAAGTA TGTTAACTGA AGAAAAAGAG GACTATTTAA AGGCAATCCT 300
 TACGAATAAT GCGGATAAAA ACTTTGTGAC AAATAAAATC TTATCTCAAT TTTTAAATAT 360
 35 TAAGCCTCCA TCTGTAAGTG AAATGGTAGG ACGTCTTGAA AAAGCAGGCT aTGTTGAAAC 420
 AAAACCATAC AAAGGTGTTA GATTAACAGA GGATGGTTT 459

(2) INFORMATION FOR SEQ ID NO: 1139:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 165 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1139:

50 TAAATACTCT CGCCGGTTAT TTCGCTTCCT CTATACGGAT TGGCGAAGA TACGGTGCAT 60
 CGGTTTCAAC TAGCAACGC TCCATTGACA CATGCTTAGC AACTTCTTTA GGCTGTTTAG 120

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(2) INFORMATION FOR SEQ ID NO: 1140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1140:

ACCTGAATGC CCATCAATGA CAGACTGGAT AAAGAAAATA TGGTACATAT aCACTATGGA 60
 ATACTATGCA GCCAGAAAAA AATGAGGTCA TATCTTTTGT GGGACATAGA TGCAGCTGGA 120
 GGCCATTATA TTTAGTAAAC TAATGCAGGA ACAGAAAAAC AAATACTGCA TGTTCTCACA 180
 GCAGGAGCTG AATGATGACA ATTCATGAAC ATAA 214

(2) INFORMATION FOR SEQ ID NO: 1141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1141:

GTTTCTAGTT GTTTATAGTT ATGCACTCTC TTGAIGTAAA ATCTAAGATG TTTATGCATT 60
 TCTAGATGTT AATTCTTCGC TGCTTAAGAA TTATCTTGAT GGTAAATCTA GTTGTGCCAT 120
 GCATTTTCTC ATGATGAATC TAAGGTGTGA ATTCATTGAT GTGTGCTGTT TCTTGnnGCT 180
 TCATTATCTT GATGGTGAAT TTGTTGTCTT AATGCACTTT TTCAAATGA 229

(2) INFORMATION FOR SEQ ID NO: 1142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1142:

TTTGAATCG TAAACACTAT TATGAAATTG CGAGAGTAGT ATGGACAATT AGAATGATGG 60
 TTTGAGAThA ATGAGTGTTA TTAACCACTG CGTCATTTTC AAAATTAGAT GCCATTTGCT 120
 GTTTATAATA AGAAGATTG ATAATTAACAT ATGATAAGAA AAAATAATAA TCCCCTAAAT 180

GGTAAATGTG TGAATAGGAA TATCGTTaAA CTAGTTGTGT TCATGCTAAT TTTAGTTGTA 300
GCAGTAGCGG G 311

5 (2) INFORMATION FOR SEQ ID NO: 1143:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 403 base pairs
(B) TYPE: nucleic acid
10 (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1143:

GATCATGCTG CTTATGAATT ATTAAAAGAG CAATTAGAAG ATGTGCTTGA TACATTAACT 60
GATAGAGrAG AAAATGTATT ACGATTAAAG TTTGGTCTTG ATGACGCGAG AACAAGAACA 120
20 CTTGAAGAAG TTGTGTAAAGT TTTGGTGTGT ACACGTGAAC GTATTGCGAC AATTGAAGCA 180
AAAGCACTTA GAAAATTAAAG ACATCCAAAGT CGTAGTAAAC GTTTGAAAGA CTTTATGGAT 240
TAATTTATAT CAATTTTAAT GATTGATACC AAGACATGAA TAAGCGCTTA TTTATTTTGA 300
25 GATTAAAGATT TAAGTTGAGT GAGGTTGGTA CATTGAATAA TGTTCAACCT CTTTTTCAT 360
AAAGGAGAAT AAAATGATTT CGTTAAATAA CCGATTAAACG ACn 403

(2) INFORMATION FOR SEQ ID NO: 1144:

30 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 612 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
35 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1144:

40 nTTTTTATTG ACGAATnGAT TTGGATGCCA GTGGTTTGGT CCTAAATCTT GAATGGTAAT 60
CGGTATTTTG AAGTTGTCAT GTGCTACACG GTAACCGATA CnATAAGTA CGAGTGCAT 120
GACAATGGTT GTTACGAGCA AGATGTATTG TAACCATGCG TTGAACACAA CAAGTTGTAT 180
45 ATAAGGCTTC ATTGACGATA CTCCCAAACC AATACAGCTA AATTAATTAT CAAAAGTGCG 240
ATGAAsCTAA GATAGAAACT AGGGTGCACT TCTAAAATGT AGTTGTTTAA AATAATTICT 300
AACAAATTGAT TTGTTACAAC TUCGAACGGT TGAATATTGA AAACACCATT TGCTATATGT 360
50 TGTAaaaaaa TCGTAGGTAT TGTAAACCA GATAACACCA GGATGACAAT AGCTAATATG 420
ACTTTACTAA TACTATTCAA CAAGCCTGTT GTTAAAAGTT CGATGAGTAA TAACACAGT 480

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AAGATATTCG GAATACTGAA CACAATCCAA ACTACACCAA CGATATCCCA TAACATAGTA 600
 TAAAACCATG Tn 612

5 (2) INFORMATION FOR SEQ ID NO: 1145:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 223 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1145:

GAATTAATTA CGCAATATCC GCATCTTAAA TCAGTAATCG AAAAATATGC TTAAAAATAA 60
 AAGTGATCAA TGAAGTGGTT TGAAGGTTGT AAATAAACCT TTGAGTCACT TCCATTTTTTA 120
 AAGGTATCCT GGATGGAACC AGAATAGATT TGAAGCTTCA GCGGTTTTTA ATGAAAAATAG 180
 CCATTAAATG ATTGGAAAC GGTAAAGGGG GGTATTTAAA ATG 223

(2) INFORMATION FOR SEQ ID NO: 1146:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 598 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1146:

CGCTACGGTT GTCACGTAGA GATTAAAGAC ATTGTTTTTA GCAGTCTTTT TTATTGAAGT 60
 AGACAATGCA AGATTAAATG GTAGTGTGAT TTCAATTTTAT TCAACTGCTA GTAATACAAT 120
 ACTCAGTGTT ATTTCTGAAG ACTGGTTGAT AATGAGACAT GCATATTTAC AAAACTGTGT 180
 ATATTGTGTA TATTGTATAT ATACAGAAGT TGATAGGGGG ACGTTGATGA AAATAATTTT 240
 AAAAAACAAT AGTGATTTTC CGATTTATGA ACAGATTAAG CAACAAGTAA AACAAAAATAT 300
 TTAAAGGGA CATGTTGCTC CTGGAGAGCA TTTGCCGTCA ATGAGAGAAC TTGCCAAGA 360
 TCTTCAAGTA AGTTTGATTA CTACCAACG TGCTTATGAA GATTTAGAGA AAGACGGTTT 420
 TGTTACAACA ATTAGAGGAA AAGGGACCTT TGTAAAGGAG CAAGATAGTT CTATTTTAAA 480
 AGAGAAACAA TTITTTACCA TGAATAATTG GGTAAAGGA ATTGGGTTAA TTAAGCnCAA 540
 GCCCATCCGA ATTGCCACTT GAGGGAnTTC CAGGATATTT nACCGTCATT TATTGAGG 598

(2) INFORMATION FOR SEQ ID NO: 1147:

55

(A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1147:

10 CAAATCCAAG TGCAACAGCT TTATCAACCG CTAAGCTAA ATCCGTATCA GCTTTTTCAG 60
 CTGAACTCG TTTGATTGT AACTGTTCTG TTAGAAGTTG GCGTTCTTCT TTACTGACTG 120
 AATCAAAGTC TCCCACTGAG AAAAAAGGGA TAATTGATG CTTCAATAAA ATCAAAGCAC 180
 15 CTCTATCAAC GCCGCCCAT TTACTTTCAT TACTTTTGGC CCAATATCT TCGGCGAAGT 240
 GTCGATCAGA ACATAATAAA TTTATATGCA TATACACTCA ACCTTTCAAT GCTGTGTGA 300
 CTTTTTAAAA TCCCCTGGTT AAAGGAAAAA GAACnGGTTA CCAGCATTTG AGGCACCAT 360
 20 TCAACACCAA CTTGCGCGGA TcngGATTAC GCCTCCATCC 400

(2) INFORMATION FOR SEQ ID NO: 1148:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 352 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1148:

TTTTATGGGT CGTATTTTTT AAAGAACAGT CATCTCAATC AAAAGAATAG AATTATGATT 60
 35 AAAATTGATG TrGTGTAATT AAAGTAAGAA ATTrKAAATT TCCTAGATAC TAGATAAATC 120
 GTTCAATATT TTATTAAATAA GGAGGCCAAT GAyTGTAAT TATCTTAAAC ATAAGTTTAA 180
 TAACTTGTTA ACTACAATGA TTGTTCTCTT TATTTTGTGA CTTCTGGTG CGATTTTTTT 240
 40 AACATTTCIA GGGTTTGGTT TATATGGATT AAGTAGAATA CTTATTATT TTAGGTTGGG 300
 TGACTTTACA TATAATAGAA GTATGTACGA TAACCTATna TATTATGGCA GT 352

45

(2) INFORMATION FOR SEQ ID NO: 1149:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 916 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1149:

55

GGCAAGTGC GATCAGAACA TAATAAAITTT ATATGCATAT ACACCTCAACC TTTCAATGCT 120
 TGTGTGACTT TTTTATAATC CTCTTGTTTA AAGAAAAATG AACCTGTTAC TAGCATTGTA 180
 5 GCACCAATTT CAACACAAAC TTTGCTGTGA TCGGTATTTA CGCCTCCATC AACTTCAATA 240
 TCAAGTTTA ATTGACGTTT CATTTTAATA GCATTAAGAC CCGCTATTTT TTCTACGCAT 300
 TGATCAATAA ATGATTGACC ACCAAACCCCT GGGkTAAGT TCATCACTAG TACATAATCA 360
 10 ACAATGTCTA AAATAGGkTC AATTGTGTAT ATkGGkGTAC CAGGATTAAAT TACTACACCA 420
 GCTTTTITAT CTAATGTTT AATCATTTGA ATAGCACGAT GAATATGAGG CGTTGATTCTG 480
 15 ACATGAATTG AAATCATATC GGCAACCATGT TCTGCAATG ATGCAATATA CTTTCTGGA 540
 TTTTCAATCA TCAATGTATC GTCTATAGTT AATGTTGTGC CTTTCTTAC TGCATCTAAT 600
 ATTGGTAAAC CAATAGATAT ATTAGGCACA AATTGACCAT CCATAACATC AAAATGAACT 660
 20 CCGTCGACGC CTGCTTCTTC AAGTCGTTTT AATTCATGTT GTAAATCCAA AAAATCAACA 720
 GATAATAATG ATGGATATAG TTTTGTCTAT TAATATCTAA CCTTCTATT TGAAATTTCA 780
 TTAATAGTT GTAAATAATG GTCGTATCTA AATTGCGCAA TATTCCTAT CTCTAATTGA 840
 25 TGChTAACCA TTACCATTAG GGTCTTGGn AAGGnTACCA ATCCCAAAACC TTACCATGGT 900
 TCCCCATAA CGGTTT 916

(2) INFORMATION FOR SEQ ID NO: 1150:

30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 35 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1150:

40 AATTGGTTGT GGCCTCATAA TGTGCAGTTG CTAGACTGAC AACAACTCG TTTTCTAAGC 60
 CTACGATAAA GACATAATCG TTTTCGGTTT TGTGTTTTC TAATGAGCGT TTGATGATAC 120
 GTTTATCTTC AGTTAAAGAT AAATTTAACT TAGTATCGTA AAGTTTAAGT GCTTCGTGTG 180
 45 AATGTGGATC TTGACAGAT TGAATGTTT TAAATCCAT AAGAACACCT CCCCAATTTA 240
 AATAATATTA TAGCATAATC GCGTGTCTGA AAAGACTGTT CATAAACTTT TAAATGGTAT 300
 AAAAAACTGT ACTATCTTAA ATTAGACAGT ACAGTAATCT CATTTTGAAT TCAGTGTGAT 360
 50 AACTAAGCtT TGGGACCTTT AGATGChTTC AAAAAATGTG 400

(2) INFORMATION FOR SEQ ID NO: 1151:

55

- (A) LENGTH: 156 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1151:

10 CACCGTAGTT GCTACCGAAT ACCACCATGT CGCCAGGTTG TGCTAAGAAG TCCGGTGTAT 60
 TTTGGTATAC AGTTAGCTAA TCCGTCGAAG TTGTTAGCGA CGGnATATCT TTTGACCTAA 120
 ACCTTTTAGA GTAATCCAAA CAAACTTTC CAACCA 156

(2) INFORMATION FOR SEQ ID NO: 1152:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 233 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1152:

25 TCAATATATT TAATTTCTAA TGTTAGCATT AGACTGTCAA TTAACCTGCT AAGTTGTTCT 60
 TTTTAGTAGTAA TTAATAACG CATATAATCA TCTAAATTTT TCATTTTTTC ATCTAGCATT 120
 30 AAAAGGTAGT GCITGATATT ATTTCTACTG TTGCTCCAAA AACTGnTCAA ATATACGTCA 180
 CATAGTCATA CTACACCTTT ATATAGTTTA AATACCAATn GCATGACCTC GTG 233

(2) INFORMATION FOR SEQ ID NO: 1153:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 339 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1153:

45 TATATTAnCT ATCGTTTAGT GAATCGTTTT TTTAAAGTAA AGAGAATTTC ATATATTACT 60
 GGTACAACTA CAAGTGTTAA TAAAGTTGAT GAAATTnAAC CACCAATAAC TGTAGCAGCT 120
 AATCCTTTCG AAATAAGAAT CgnGCTATCT TGACCAAATA ACAnAGGAAC TAATGCACCA 180
 50 ATTGTTGCAA TCGCCGTCAT TAATATCGGT CTAATTCCTAG TACCGCCTCG TTCGATTAA 240
 GCTTCTTCCA TCTCCATGCC CTGTTGCTCA TTATTAATAA CACGGTCTAT TAACACAATG 300
 GCATTTGTTA CTACGATnCC AATTCACAT TAGCATACC 339

55

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 817 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1154:

10	GTCACCCGAG GAGATATnCA ACTATTACCA TCAAGATGnG AAAAAATGGTg CCTTGGGCAA	60
	TTGGTTTTTT CATTTTAATC TTAATTATTA TATTGTTCTT TTTACTAAGA AACITCAATT	120
15	CACCTGAAGC GCAAACTAAA ATATTAGTGA ATGCGATTGA GAATAATGAT AAACAAAAAG	180
	TAGCAACATT ATTAAGTACT AAAGATAATA AAGTAGATTG TGAAGAAGCA AAAGTATACA	240
	TTAACTATAT CAAAGATGAA GTTGGGCTTA AGCAATTGTG CAGCGACCTT AAAAAACGG	300
20	TACATAAAIT GAATAAGAGT AAGACCAGCG TagCTTCTTA TATTCAAACC AGATCTGGTC	360
	AAAAATATAT ACGTGTAGT AAAAATGGCA CACGTTATAT CTTTTTCGAT AATATGAGCT	420
	TTACTGCACC TACCAAGCAA CCAATTGTTA AACCGAAAGA AAAACAAAAA TATGAGTTTA	480
25	AATCTGGTGG TAAGAAAAAG ATGGTTATAG CTGAAGCAAA TAAAGTGACG CCAATAGGTA	540
	ATTTTATACC GGGGACATAT AGAATCCAG CTATGAAATC AACTGAGAAC GGTGATTTTG	600
	CAGGCCATTT AAAATTTGAT TTAGACAAA GTAATTCTGA AACGGTAGAT GTTACTGAAG	660
30	ATTTTGAAGA aGCAAAATATA TCTGTAACTT TAAAGGCGA TACAAAATTA AATGaTAGTT	720
	CTAAAAAAGT AACTATAAAT GaccATGAAA TGGCATTTTC AAGTTCCAA ACGTATGGTC	780
35	CATATCCACA AAATAAAGAT ATTACCATTT CCAGCTT	817

(2) INFORMATION FOR SEQ ID NO: 1155:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 322 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1155:

45	AnAGAAAATC TACTCTTTTA TTTCACCGGT CCTTChTAT CTCTCATTTG GCATACTCCT	60
50	TTTTCCATAT TTTCACCTTT CAnTACAGTG AATTTACATG TAATTTTACA AATACAATAG	120
	GAGTGACAAA TGGAATATAA CACTTATCTT TATAAAATTA TTTTATATAT TGaCGCACTT	180
	AAAACAATCT ACAAATAAAA TTATTATTTT TAGTTTTCAA TGAATAATTC ATTCTTATCT	240

ATTTAAAAAT ACATTTAACT GC

322

(2) INFORMATION FOR SEQ ID NO: 1156:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 777 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1156:

GTTTCCAAnG GAAnGnGAAA AGCGTCAACC AATGTAAC TA TTTAAAGTCA AAGTGTGTTGA 60
 CCAAAATTGA CTTAATATGT AAAATAATGA GTAACAGTTA TTACAAGGAG GAAATATAGA 120
 TGAATTTAAT TCCTACAGTT ATTGAAACAA CAAACGCGG TGAACGTGCA TATGATATAT 180
 ACTCACGTTT ATTAAAGAC CGTATTATTA TGTTAGGTTT ACAAAATTGAT GACAACGTAG 240
 CAAATTCAT CGTATCACAG TTATTATTCT TACAAGCGCA AGACTCAGAG AAAGATATTT 300
 ATTTATACAT TAATTCAACA GGTGGAAGTG TAACAGCTGG TTTTGCGATT TATGATACAA 360
 TTCAACACAT TAAACCTGAT GTTCAAAACA TTTGTATCGG TATGGCTGCA TCAATGGGAT 420
 CATTCCTATT AGCAGCTGGT GCAAAAAGGTA AACGTTTCGC GTTACCAAAT GCAGAAGTAA 480
 TGATTCACCA ACCATTAGGT GGTGCTCAAG GACAAGCAAC TGAATCGAA ATTGCTGCAA 540
 ATCACATTT AAAAACACGT GAAAAATTAA ACCGCATTTT ATCAGAGCGT ACTGGTCAAA 600
 GTATTGAAAA AATACAAAAA gACaCaGATC GTGaTaaCTT CTTAAC TGCA GAAGAAGCTA 660
 AAGATATGG CTTAATTGAT GAAGTGATGG TACCTGAAAC AAAATAATT C AAAGTAAAGA 720
 GTAGACTAAG CnGTCTGChC TTTTGTATG AGTAAACCAA GGTGTCATA ATTGTn 777

(2) INFORMATION FOR SEQ ID NO: 1157:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 155 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1157:

TAATGTGGT AAATGGGTTA AGGCTCAAGG TCGTATTGAA GAAGATACAT TTATTAGAGA 60
 TTTAGTTATG ATGATGCTG ATATTGAAGA GATTAAAAA CCGACAAAAA AAGATnAGGC 120
 TGAAGAAAGC GTGTAGAATT CCACTTGCAT ACTGC 155

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1158:

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10 GACTGGTAAA ATTACTTGC AAGTAAAGCT AAAAGGTCAA ATAGATAAAG AACAACTGTT      60
   TTTTCAAAAT GACAAAAATG AAGAATTTCCT TTTTGTATA AAAGATGAAA AGGATGACAC      120
   AATAGTAAGA ATTTTAATTG AACAGCATAT GGATAAAATC AATATGCATG TTAAGACGTT      180
15 GGCTGAAAAG AAAAATCTAG ATAACAAGA AATGGTGTAT TCTATTCATT TTAAGAGAAA      240
   AAAAGTACAA CATGATGATG CAAAAGAAGT GCCTTCAAAA CATCAAAATC AAGAAAAATA      300
20 TCAAGATCAG CTTAAAAAAG ATATTGATGA CAAAAGAGAT AGTCAAAAAT CAGATACTAA      360
   GGGAAAGACG TACTAGCCTT TTTACTGGAA AAAGGGTTTA      400

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(2) INFORMATION FOR SEQ ID NO: 1159:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 347 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1159:

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35 GTTGGTACAG TGTTGAGTGG CTTTGAATAT CGAACACAAA AAAAAAGTA TGACAATTTA      60
   TATAAATTTT TCAAAGATAA TGAAGAGAAA TACCAATATA CAGGCTTTAC AAAAGAAGCA      120
   ATAAACAAGA CGCAAAATGT CGsATATAAA AATGAATATT TTTATATCAC TTAATCGTCA      180
40 AGAAGCTTAA AAGAATATCG TAAGTATTAC GAACCATTA A TTCATAAAAA TGATAAAGAA      240
   TTTAAAGAGG ATGACCAGC CAGAAAGAGT GATTACGCGC TATCAGTCAG TACACATGTT      300
   AGTCCAGGAA TTTCTAGCAT CnGTGTGTGA ATGAnGGTA CTTTATn      347

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(2) INFORMATION FOR SEQ ID NO: 1160:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 203 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

ATAGTTATTA ATTAGTAGAA TGAGGATATT TAAATATAAA GGATAGTGTT GAACTTATGG 60
 ACATGAATTT CGATTATACA TGAACGGTGT TGTAGAACAA GCAAGGAATG AAATTGAATC 120
 TCGGGGATAT GAGCAATTAA CTACTGCAGA AGATGTTGnA AAGTCCAAGA TGGnCACCTA 180
 GITATGATCA TCTGTATGTG GTG 203

(2) INFORMATION FOR SEQ ID NO: 1161:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 203 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1161:

AATTTCCnT TTCCATTGAC ATAACAATAT TTAATGGGGC CCAGTTACAG GAAATATCAG 60
 TTTAATTTCT TCTTCAATAC CATAGTCATA ATATTGAGTT TCTTGTTGTG GAAAATTTCC 120
 TACATAGTTA CTCATTTTAA TTTGTnCAAT GTTTGAATTC GGAGGCACTC TGTTAGCATA 180
 TCTTTAAACA TTAAATATGG ATA 203

(2) INFORMATION FOR SEQ ID NO: 1162:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 220 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1162:

GCCATTTTGT TGATAAAGGT ATAATAAAGG TTATCGTTT GAAATTTTIA GTAAC TAGGA 60
 TATGTTTCTG GTTATAGGAC CGGAATTTGT GGTATACGGT AAAATTTTAA TGCTATTGGA 120
 ATTTTAAAAA ATGAAAAAAC ATGGACATn AAATTGGAAT TTCATAATAT GTCCTAATG 180
 GACTTAACTT GTTGGGAGTT CATTTTACTA TTTnTATGGT 220

(2) INFORMATION FOR SEQ ID NO: 1163:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 409 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

TTCACGTGCT TTGCCATCTT TTAAGAAAAA CACAGAAGGC TTTTGCAATT GATTGTAATT 60
 GGATGCCATA GAGTAATGAT ATGCACCACT TGATAATATA GCAAGATAGT CTCACGTTT 120
 5 GACTGGATGA AGGTAATTTA GCGTCTTTAA TAATGATATC ACCAGACTCA CATAATTTTC 180
 CAGCTATAGT TACACTGtCA TCTGCTTCTT CATTTCtATT AACAGCAAT GCTTGATACT 240
 TTGCGTCATA AAGTCAGIT CTGATATGAT CACTCATACC GCCATCGATT GAAACATATT 300
 10 TATTATCTC TGGAAITTTCT TTAATGGtC CAACTTCATA TAAAGTAACG CCAGctTCAC 360
 CTACAATTGA TCGTCCCGGT TCAATACCTA TTCTGGTGC ATCTATACC 409

15 (2) INFORMATION FOR SEQ ID NO: 1164:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1164:

25 CTAAATAATT GTTAAATTT TTCTTACTA TTTAGACTCT TTCGTTTGCC ATGACTTTGT 60
 TGACTTGCAA TGATATGAAC TTAATTTTTC CGAAAAAAGG AATCTAGATT CATATATTTC 120
 30 GTAAATCTAC CITCTTCATC TTTTGAACCT TGTAATTCTA GCAATTCAAG TTGTATCAAA 180
 TTTTGAATAA CCATTGTAAT ATCACGTGGT TGCATAGTTG AGCCCTTCTG AAGCAATTCA 240
 ATTGAAGCGG TITATTGAG TTTTGAAGCA TAAATCAATT TAAGCAAAAG ACTAAATCTG 300
 35 CTCATCTAAA CCTAAGTCAC GTAAGGTCTA ATAATCnCTC GTATCACTAC GGTCTGCTTT 360
 AATGATATTA nCCAGTnCGT GCCCCTTTAA ATTAACCAaA 400

(2) INFORMATION FOR SEQ ID NO: 1165:

- 40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 327 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1165:

50 TCGTGATTAT TATTACATT TTTTAGTAAT TGATAAAAAA CTTTCTCGC TTCTGTAGGG 60
 CTAGTGATAA TCATATAAAC CCTCCTTTGT TTTCTGTTAC GCTAATTATA GCGTACGCAC 120
 TGAGTAGCT CATATTACCA ACGAGTTCAT CGTATnCTTA ATACCTATAT GCTATCGTTC 180

	GGACACACTA CGTnCCCTA CCGCTTAACC ATTTCGGGC TTAAATATTT TnAAAAATTTT	300
	GTGAGGATCC GCTTAAAAA CCCCAT	327
5	(2) INFORMATION FOR SEQ ID NO: 1166:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 148 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1166:	
	TTAGGATTTC AAAAAATGT CAGGTTTCT AACATAAGC TTA AACATT GATATACTG	60
	CGATTTCGAC TTCTAAACG aCATrAAACA ATCTACAGCT AAAATATTTT TTCAATTTTT	120
20	AAAAATAATC nGATAAATCT CCGCAAAA	148
	(2) INFORMATION FOR SEQ ID NO: 1167:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1167:	
	nAAGGTTATC GCTCGTAAAG ATGTTGTGA AGAAGTATTT GACGACAGAG ATGAAGTGGA	60
35	TTTAAGTACA GCGCTTGTTA AAACCTTGCA TATGAAATTG GTGTATTACG AGAAGAGTAC	120
	ACTAAAGTTT TGGTCGTGTA GGTCTCAGCA GCGAACGCA GTATGCACGT CTnCGTGTGC	180
	TGACGTGAAT TTTATTGAG GATTATAGAC AAGAGAGACA ACTTACTGGA TTTTGCCCTG	240
40	TTG	243
	(2) INFORMATION FOR SEQ ID NO: 1168:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 321 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1168:	
	TTATATACTA CTATAAGTA ATCCAATCT CAAGAAGGTA AATGGGCAAT CAAAAGCTAA	60
55		

CTACGATATG ACGCACAAAT GTTTAGGGTA GGTGTTGACA TGTGTACAAA AACCAGCAGA 180
 AAATGGTTGT ATTCTTAGGG AAGCATTTCAT CCTGTTTGGT TATGGATTCA TGTTACGTTA 240
 5 CGCAATATGT TTTTATGTAG CACAGCGAAG TTACAAGTTT ATACGCTATA TATCCTTGA 300
 TnATAAGCAG ATGAAAnCGG C 321

(2) INFORMATION FOR SEQ ID NO: 1169:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 191 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1169:

20 TCTACATATA AAATTACTCT AAAAATATGT ATAGTCATAA ATTGTTGGTT GATTTAATTA 60
 AAAGTATGGA AATTAAAGGG CTCTTATGTA TATAAAAAA TGAATTAGA TAAATGTAA 120
 GAnAATATTT AGGGTCGATT GGAGAGATAC CAGTGGTACC AATTAGAAGA CGACAGTTTA 180
 25 ATGTTACCAT A 191

(2) INFORMATION FOR SEQ ID NO: 1170:

30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 303 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1170:

AATGTGGCAA GGATGTGTGA TATGACTACA CATTTAATAT CATCCTACAT AATAATTTG 60
 40 CGCGCCAAAT TATCACACAT ACCACACCTA CGATAACAAC CAGCAAAATA GGAGATAGCT 120
 ACACGTATTT ATCGTCCAAC GCACACTAT ATGTTGTTGn ATGGGCACAA GTTACAAGTG 180
 CTGCGCGATA nCAAAAGGTA TACCCCTAAA ACGTCCCAA AnAATCGGTT GCCCTCTAAA 240
 45 TTGTTTGTGT GCCATGATTA GTAAGCTCCT ATGTTAGAAA CAAATTTTAT ATATGTATAT 300
 TAG 303

(2) INFORMATION FOR SEQ ID NO: 1171:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 299 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1171:

5 AAAAAGGTGA GAAGACAATA ACGnACGCCA ACCTAAAAA ATCCATTAAC TGGAGAAATT 60
 ATTAGTAAAG GTGAATCGAA AGAAGAwATC ACAAAGATC CAGTTAATGA ATTAACAGAA 120
 10 TTCGGTGGCG AGAAAATACC GCAAGtCATA AAGATATCTT TGATCCAAAC TTACCAACAG 180
 ATCAAACGGA AAAAGTACCA GGTAAACCAG GAATCAAGAA TCCAGACACA GGAAAAAGTGA 240
 TCGaaGAGCC AGTGGATGAT GTGATTAAAC ACGGACCAA AACGGGTACA CCAGAAACA 299

(2) INFORMATION FOR SEQ ID NO: 1172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 821 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1172:

25 CCATAGCACC ATACCCATAA CCAACCCGGA TCCACTAACA AATAAGTAAT AATTnACAG 60
 TAAAGAAGTA AATAGTTTGT TTAGTTTTTT ATCAACATTA TCAATGTTTT COTCGACAGA 120
 30 CACTGGAATT TTAACGATAG CTGTACCATT TGTAATTGAG TAGTTCGTTA TTTCACCCAT 180
 ACTACTATTT GGTAAAATTG TTAATTCTCC TGAATTGTGA TTGATTCGTG TTGAACGAAG 240
 TCCAATTGAT TTAACGTGTC CCTCTGCTAC AGTTGTACCA CCGTTATTTA TCTTAACATA 300
 35 ATCACCTACA TCAAAATTGGC TTTCAAATAT AATAAAGAAT CCTGTAaTTA CGTCTTTAAC 360
 TATAGTTTGA GCACCAAAAC CTACTGCTAA GCCTACGACA CCAGCACTGG CAATTACCCC 420
 TTCAACACTA ATGCCAAATT TACTTAAAT CGTCGTAATA ACTATAAAC AAACGATATA 480
 40 CTTCACATA TTTTGAACAA GAGATATTAA AGTTTITAGAG CGCTTTTTGT TACTCTTTTT 540
 ACTTTTATTT TGAATCTTAA ATCCCTGTTC AATCATTTTA TTCAGTATTT TAATAACTAT 600
 45 GAGGCTACG ATAATATAAA TAACAATCAT AGCGATTTTA GTTGCAATGT TTTTCATATGT 660
 TTCTATTTTT GTTAATGGCT CAAATAGAGA TGAATAATA TTCATGACTT GATTTCATGT 720
 AAGCGTACT CCCTCTTATA TGAATATCA ATATTGtATT CATATTTtga TATACTTCCC 780
 50 AACCTACGAA AGTCTCAATA TATCTAGAAT CAAATGGTCA C 821

(2) INFORMATION FOR SEQ ID NO: 1173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1173:

CCGAAATTA AATAATAAT GTATGAATT TTAATATGA TTAAACGTT TTCAGTTTTT 60
 10 ATGAAAACGC ATGCATTTTA CAAATAAAAA TGGTACGATG GCACTGGTTA AAACGTTTTA 120
 CTAAAAACAA ATCATGAGGT GTATAACATG GCTGTCTCTT GATCAGATCT TGATCCCCTG 180
 CGCCATCAGA TCCTTGGCGG CAAGAAAGCC ATCCAGTTTA CTTTGACGGG CTTCCCAACC 240
 15 TTCCACAGAG nCGCCCCAGC TGGnCAATTC CGGTTTCGCTT GCTGTCCATA AAACCGCCCA 300
 GTCTAGCTAT CGCCATGT 318

20

(2) INFORMATION FOR SEQ ID NO: 1174:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 206 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1174:

30 GTTTTAAAGC GGTATATAAG GTAAATATGC AATATTATAA ATATCTTCTT CAGAACTAAC 60
 CGAATCTCTT AAATCATCTT GTTTAGATAG CGTTTCAAAT TGATAAGTTT TAATTTTAAC 120
 CGTTACAGTT TTAGCTGACT GCTGTAATTT ATTTGACGTG CAGCTGTTTT CCTGACAATn 180
 35 CCATACTGTC TTAAAnCTCT GCATCA 206

(2) INFORMATION FOR SEQ ID NO: 1175:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 653 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1175:

TCTGCATCAT GATATTTTAC ATCATCACTT ATAAGAAGCT CACCTACATT TAAACTTTCA 60
 50 TCTAAAGCTC CAGCAGAACC TGTATTAATA ATGACGTCCG GTTTAAACTT ATTAATTAAT 120
 AATGTCGTAG AAATGCGAGC ATTAACTTTT CCAATGCCAC TTTGGGTAAT CACTACTTCT 180
 CTATCTTTTA AAATGCCAGT ATAAAAATTA ACATGTGCAA CTGaAATTTT GCTTAATTGT 240

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TTTGTATCA CCTCTTTAA AAAATCCTAG CATTGTTAT TTTATCACAT TTTAATCACT 360
 ACAACGACAA GTATCATGAT TTTCACTACT GTATAAACT TTGCTTTAT TTTTATAAAA 420
 5 AGCTCTTICA ATAAGTTGGT ATCATAAATA ATTATTTTG AACTCATAAC AGTGAATTCG 480
 ATGCTTCTAA TITGCTAT TTTCAAAAAC TAATCATATC AATTACATCA ACCAATCGTG 540
 10 TCAAGAAACT TTATTAAATA ACAGGAAAAT GATATGTTA AAATAATAAT GATGAAATAA 600
 GAGGATTTTA CAATGGCTGA AAATAATCAA AATAGTCTCG TAACAAAGAT AGC 653

(2) INFORMATION FOR SEQ ID NO: 1176:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 410 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1176:

ACATGGCCGT TnGnATCAAG ATCGTCAACG ATTGATTGGT ACAATTGAAG TGCCTATGAC 60
 25 ATTGGCAACC GTTGGCGGTG GTACAAAAGT ATTACCAAIT TGCTAAAGCT TCATTAGAGC 120
 TACTAAATGT AGAGTCAGCA CAAGAATTAG GTCATGTAGT TGCTGCCGTT GGTTTAGCGC 180
 30 AAAACTTTGC AGCATGTCGC GCGCTTGTGT CAGAAGGTAT TCAACAAGGT CATATGAGTT 240
 TACAATATAA ATCATTAGCT ATCGTTGTAG GGGCAAAAGG TGATGAAATT GCTAAAGtAG 300
 tGAAGCTTgA AAAAGAACC CCGTGCAAT ACACAAGCAG CGGAACATAT TTTACAAGAA 360
 35 ATTAGACAcA ATAGTAAAgG CGATAGCGAT TaaAGAAAGT TAAGTCAGTC 410

(2) INFORMATION FOR SEQ ID NO: 1177:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 146 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

46

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1177:

CATCAAGATA ACTACGGTTA TAATCCAAAC GACCCACAT CATATAACTA TACTTACACT 60
 50 ATTGATGGCA CAAGGTAACCT ACCATTACAC ATGGGAAAGG TAACTnGCAT CCAAGTCAAT 120
 TAAACCAAGA TAATGGCTAC TACAGC 146

(2) INFORMATION FOR SEQ ID NO: 1178:

55

(A) LENGTH: 225 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1178:

10 TGTTCCTGGT GGAACCTTGG TTCTTAATG TCATCCAAA TTGCTGTATA TTCATTCATT 60
 GGTATTGAAC TTATAGGTGT ACTGCTGGTG AACGAAAGAT CTGAAAAAAC CTTACCGAAG 120
 CAATTAATAA TGTACTATCC GTATTTATAT CTATATCGTG GThATATAAT ATGTCATCAA 180
 15 CTGGAThTAC GTCAATAGAC CTTOGTAACC TTAATATCGC GACAT 225

(2) INFORMATION FOR SEQ ID NO: 1179:

(i) SEQUENCE CHARACTERISTICS:

20 (A) LENGTH: 319 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1179:

TGTACGCATA TGGTATCACT TGATGACCAA TTCACCTTGT CGAGAATAAC GTTATTTAAA 60
 30 GACATTGATT TAAAGAATTG GTATTnCGTT AATTGTATTA GACTTTTCAC AGAAGTAGCG 120
 ACAACAATGA TTTTCATCGTA ACACGTGCGC ATATnAAGCA TGGGAAAAGA CATGhGhCTAT 180
 TGACCTGGCC TTTTGTGCAC TCGTACGATT GGTCAAACGT GGCTATATTG AAAGTTTGAA 240
 35 ACAAGATGCG ACGGACACAC ATGCACGGGT GGGGATAGAT CTTGAGTCTT ATTGAGACGC 300
 TGTGACTGTG GCTGACATC 319

(2) INFORMATION FOR SEQ ID NO: 1180:

40

(i) SEQUENCE CHARACTERISTICS:

45 (A) LENGTH: 654 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1180:

50 TTTTATCTTG GTTTTGAACAT AGATATGTGT AGTCAGGTAT AACATAATCA ATCCCTAATA 60
 AGTTATCATC AGGGAATTTG ATACCTGCAT CGATAATGAC AATTTGCTCT TTATCTCAA 120
 CTGCATAAGT ATTTTACCG ATTTTACCTA GACCTCCAAG TGCATATACA CCTACTTCAT 180

55

TTGTAATCT AAATGTGCGC CCTCTAATT AGTGATAAAT TCGATATTAA AATTACGATC 300
 TTCAAGTAA CGACGTACTT GTTCTTCTGT TTGAGCTTCA ACATAAAGTG ATTGTGTATT 360
 5 TTCACGCACA ATTACCTCGT CTCTGTTATG TTGATAaAAA ACTTTAAATA CTGCCATGTT 420
 AAAAATTCCT CCTAAGAATG TTTGTyTAAT TTATTGTTAA CCCTAGtAAA ATCGTATTGG 480
 AGTATATATC GATAAAATCA TTCCAATCAT CTCTATAATG TAACCTAATA ACGATTGGT 540
 10 TAATAACTAG GTTCATCATG TCGTTCATT TAAAAAATTA GTGAAATAAC ACTAAAATTT 600
 CAGTTAAATC TTATTTTACA TGATGAATGA TAATAAATAA AGCAGTTTAT CTCA 654

(2) INFORMATION FOR SEQ ID NO: 1181:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1181:

CGGGTATATT ATAGACAACG TTAAAGGACT TCTTTTAAAC TAACCTTGTTA AATGTGTGCTG 60
 TATTTTGTGA TTCAACACTG TAATATAGTT CTTCTGACGC TGATGCATTa CTCATTGTAA 120
 TAGATATTAA AAGACTCAAT ATTATTaaAC TAATAATAGC GCGCTTTATG ATTTTCATAT 180
 30 TCTAATCTCA AATGAATCC AGAAGTTTAT ATGGTTCAGG TGCACAACA T 231

(2) INFORMATION FOR SEQ ID NO: 1182:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 245 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1182:

TAAGTTTATT AAGCTCTTGT CCGTTAGCAA TCACGCTACC GCTAGAAATT TGGTCAATTG 60
 45 AACTTAGTAC ATTTAAATAG GTTGCTTTAC CTGATCCAGA AGGCCCCATA ATCGCACGAA 120
 TTCGCTTTT TGTATGTCAA GTAATATCTT AGGCTGAATG GTGCTTTACG AGTTTGAACA 180
 GTGCCGAAAA CGCAAGCCCC TTGATATCTT AAATGTGGAG ACTACAACnC ATCAGTnCa 240
 50 CGGGA 245

(2) INFORMATION FOR SEQ ID NO: 1183:

(A) LENGTH: 490 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1183:

10 AGGTTAAAGAT GATGGTGTAG AAGTTTATGT GCATTGCGAA GATCATGGCA TTGTATTTTAA 60
 TGCAAGTCTA CCTTTGTACA AAGATGCCAT CCATCAAAAA GGATCAATGC GTAGTAATGA 120
 CAACGGTGAT GATATGAGTA TGATGGTGGG TACAGTCTG AGTGGCTTTG AATATCGAGC 180
 15 GCAAAAAGAA AAGTATGATA ATTTATATAA ATTTTAAAA GAAAATGAAA AGCAATATCA 240
 ATATACAGGT TTTACTAAG AAGCAATTAA CAAGACGCAA AACGTCGGGT ATCAAAATGA 300
 ATATTTTAT ATTACATATT TATCAAGAAA TTTAAAGAA TATAGAAAT ATTACGAACC 360
 20 ATTGATACAT AATCAATGAT AAGAGTTTA AAGAAGGTAT GCAACGAGCT AGAANAGAGC 420
 TAAACTATTC TGCTAATACA AATACTGTAG CAACGTGTGT TAGTACGAAT GATGAAAGGA 480
 ATAGAAAAGA 490

25

(2) INFORMATION FOR SEQ ID NO: 1184:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1184:

35 CTCGCATTTT AATAAATCAT ACTCTCTTT TCTTGATAC GAATTAGAAT AACTCGCGAG 60
 ACCTATAAGT CTCTTTCCTC ACTAGATAGT TTACTACTTTT GGTChGTTGA AGTCAATAAT 120
 40 TTTATCTAAA GCTATAAAAA ATCTTTTGAT AGC 153

45

(2) INFORMATION FOR SEQ ID NO: 1185:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 164 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1185:

TCATTATAT ACTGTATCAC GCTATCTTTA GTATGTGTGC ATnATCATTC GTTAGTGCST 60

55

AATGAACGTT ATATTITAAAT TCATGATTITA CTAAGACCAA CAAT

164

(2) INFORMATION FOR SEQ ID NO: 1186:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 143 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1186:

CACAAGTGAC GTCATATTAT AAAAGTCACT CGGTTTGCGA TACGTTCTGT CTAAGAAATA 60
 GCGACGTGCA ATTTCATATT TTTATAAAC ATCCGTTGAA AAAGGACATA AAACCATGCG 120
 TTGAACCAGG GTCTATACTT TCT 143

(2) INFORMATION FOR SEQ ID NO: 1187:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 209 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1187:

CGTACAGTGT AAAACGTTTA TACGATTACG AAAAACCAAC GAAGAGTGAG AAAGATCCAA 60
 TGGTGTGATA TGCAGTAAAT GCAGGATACA AATGGTCTTT TGCTTATCCA GATGAACATA 120
 TAGAGACTGT TAATACATTA nCAATCCCTA AAGATGCTCT TTTATTAGCT CAGCATGAnC 180
 ATACAGTTCTG GTCACATAGT GTCAATTCA 209

(2) INFORMATION FOR SEQ ID NO: 1188:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 243 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1188:

TTGGAATCGC TGTCGACGGA TAGCAACCTG GATTGTAAAA ATAATGTTGG CTTTAAAAAT 60
 ACCGTGGCAA TATTAAATGA ATAATCGCTG CTGAATATAC ACCCAATGCA CATTGAACTA 120
 ACATAAATCC ATTGTACTCA TCTACGCCCA CTATTGGCTT TATAGTCACT GAACTAAGCT 180

TAT

243

(2) INFORMATION FOR SEQ ID NO: 1189:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 527 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1189:

CACCAGGCAT TACCATACCA GCACTCATAC CACCAATCAC KCTCGATAAC ATCAATACCG 60
 AAAAATTGTG GCCAACTGCA AACATAAATT CTGACACTGA AAACAAAATT AATCCTATAC 120
 ATATAATTAA TTTCCTCCCT AATTGTGCAG CTAGCGTACC ACCAAACGGC GATATAATCA 180
 TTTGAGATAA CGCAAAAGCA GCACTAGTA ATCTAAATC ACTACCAGTT AATCCCAAT 240
 CTTTAAATA AACAGGCAAG ACTGTATTA CTAACCGAT ACCTAAAAAA ATCAAGAAAA 300
 TATTAAATA TAAGACAAA ATCTGTTTAT TCATATGCTC ACCTCTTTT TCTCCATGTC 360
 ATGCTTAAAG CTGTTATTCT TCTTTCCAC GACAGATTGC AATTCATGCT AAATATTGCT 420
 AAAAAGTTTC TATATTGTAT TACAACATTG CTACATTGTA CAATATTTT TCTTTGTAAT 480
 TATCACTATn TTCCATTAA TGTATAATT AATGACATAT TnnAATA 527

(2) INFORMATION FOR SEQ ID NO: 1190:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 889 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1190:

AAAACGTGGC AGTAATTCAG TGTATGTTCA ATATGATGAT ATTATGTTTT TTGAATCATC 60
 AACAAAATCT CACAGACTCA TTGCCCATTT AGATAACCGT CAAATTGAAT TTTATGGTAA 120
 TTTAAAGAA CTGAGTCAAT TAGATGATCG TTTCCTTAGA TGTCAATAA GCTTTGTCGT 180
 CAATCGCCAT AATATTGAAT CTATAGATTG GAAAGAGCGA ATTGTCTATT TTAATAATAA 240
 AGAACACTGC TATGCATCGG TGaGAAACGT TAAAAAATA TAATAAGATA ATAAAGTCAG 300
 TTAACGGCGT ATTCAATTGT AAATCTTGTT GGATTTTAA CAGATAACTA GCAATATGCAC 360
 TGTATAGCTG GCTTTTAAAT TTTATTAACA AAATTAAATA TGACGCGTGA ATTAAAAAAT 420

CTCTACAATC CTATGGCGCA ATTTTAAACA AAATATACTA AATGTGAAAT TGACAGTTTC 540
 CATAAATAAA ATGCTATAAT TTCCTACTCC GTGAATCTTA TTITGTTITA AAAACAGTG 600
 5 TAGCACAAGn TTCAACTTGT TTCCTACACT GTTTTATAAA TGAATTATTT AAAATGCTTG 660
 TTCAACCTCT TGTAATGTTG GCAAACTATT AATAGCACCA TACTTCGTTG TCACTATTGC 720
 AGCAACGCGA TTGCTAAACG CTAATAATTC CTCACCTTCA TTTTCAAATA ACTGAGTTAA 780
 10 ATTTAACACA TCGGTGCTA AAATCCTGCT AATAACTGCA CCAATAAATG CATCCCCTGC 840
 CCCAGTTGTA TCAACAGGTT TTACCTTATA GCCACTATGA TAATGATTA 889

15 (2) INFORMATION FOR SEQ ID NO: 1191:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 254 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1191:

25 AGTTAAAGGC GTTGAATTAA TGGCCTTCCC ACACATGACA TATAACAAG CGTGCGCCTA 60
 TGGTCTGATA ACCAGATACA CGTTTGAATG GATTAATTGC GTTCTCAATT AGGCGTGATA 120
 TGGCTTTAAA GATTTTnAGTC TGTGAAATG ATGGTGAATT AAAGCATTGC GCTAAAGGTG 180
 30 CACTGACAAAT ATCTCGTAAA GATATGGTGC TTAAACAGAT TTGTAACATC TATGGTCTAA 240
 nGATACGGGG TTAA 254

35 (2) INFORMATION FOR SEQ ID NO: 1192:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 189 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 40 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1192:

45 GGCTCATAAG TTACACCTAA TGCACTTCA TCTGGAAGCT GTGGTTATC ATCTCTTAAA 60
 TCAGCAGITG GCGTTTTTTC ATATAATTCC TTTGGCGCAC CAAGATACGC TAATAATTGA 120
 GCTGTGTATn CTAGGCATCC ATACCGTATT CGTTAAACCA GTATATTTCa GCTGAATGAT 180
 50 CTGTCCTAC 189

(2) INFORMATION FOR SEQ ID NO: 1193:

55

(A) LENGTH: 215 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1193:

10 TTGATATTGA TCGATGACCG GTGATGTGAA ACTGAACTG ACCAATGAAT GAAAAAATGG 60
 GCAATGTTTT TGACAACAAAT GGTCATTAC CAAATAAAAA TATTGnCAC ATTAAACCT 120
 GnCAAACTG TTGTTCTCTA AACCTAAAT GATAATCCT ATTGAGATTA TGGACTTGGT 180
 15 AAGCTGCAAT CTTTTATAA TCCTTATAAG CAATG 215

(2) INFORMATION FOR SEQ ID NO: 1194:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 158 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1194:

AGAATTTCn ACTGTTTAC CAACGCATCT ATGTTGGTC GCTATACCG ATACAGATGT 60
 30 CGAACATATT AACCATAGAA CGTAGGTGTG GTGTTCTAGA AAAAGAAGTC CCGTTATTGA 120
 AATGGGACAC TTGATCAACA GCCGAGTGAA ATCGTTTT 158

(2) INFORMATION FOR SEQ ID NO: 1195:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 180 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1195:

45 ACTGATTGCC GTGCTGTGG TTGATCATT ACTAATTGTT GGCCATCATT GgntTCTTGG 60
 TCTAATAGTC CTCTTGCTCC TGCCTCGTAA CATTGATGCC AATCATGCAC CACAGCCTTT 120
 CGGTTCTCA TAACATTCTT GCCAATGCT CTACATGACA CGGGCTCATA TTTCTTCTG 180

50

(2) INFORMATION FOR SEQ ID NO: 1196:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 274 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1196:

5 GTTAAAGCGA ATTATTCACA ATATAAAAAA TCATCTGATC AAGTCGTATT AGAATTAGGT 60
 ACAAATGGCG ACTTTACTGT CAAACAGCTC GACGATTAC TTAATCAATT TGGAAAAGCC 120
 AAGATTATTT TAGTTAATAC ACGTGTTCCA AGAATTmTG AGGgCAAATG TAAATCGATT 180
 10 ATTaGCTGAC GCGGgGAAA CGGAAGTCCC AATGGTCACA TTAATTGGAT TGGGTATTAG 240
 GCGCTTCACA AGGGACCTTG GTGGAATATT TTTG 274

(2) INFORMATION FOR SEQ ID NO: 1197:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1197:

25 ACGTAACCTA TAITCATCTC TGTTCCCAAT AATAATAACA ATACATAACT GATATTAGCT 60
 GTCTTTCATC TCTAATTAAT ATGCGTCATG AGCTAATATC GGTATTTTTT TTGTGTCAAA 120
 nAATTTTTAT TTTATCTCTC CATCGCATTa ATTG 154

(2) INFORMATION FOR SEQ ID NO: 1198:

30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 249 base pairs
 (B) TYPE: nucleic acid
 35 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1198:

40 AATCTCACC CGTAATAAAC TCGTTTGAa TCGTTGTTC GAACACGG TATATTAAAG 60
 CAATATCTC TAACCTATTT TTAGTTCGAG TTTGCATATT TTTATCAGCA ATAAAGTGTT 120
 45 CTAAATGTTT AGGCGTACT GCATATTTTT TAAAATCTTG AATTGTCTCT GTTAATTTTT 180
 CACTAAACCC ATAATATTTT GCTGTGATT GATAAAGTTT TAAATACTTT TGTGTTCnT 240
 GAACAATGn 249

(2) INFORMATION FOR SEQ ID NO: 1199:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 165 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1199:

TTGOTAAAAA TCGACATCAA ATACTAAATC TGATCCATCT GAATCCCATG TTAAAAACCG 60
AAGTTGTGCA TTAATTGTAA AGTTCAAACT CTCATCTTC ATAGATCGCG ATGCGTCTTT 120
TAATTCCTTA GGTGATACTT TGTAGATCTA TAACAAATTT AnCTA 165

(2) INFORMATION FOR SEQ ID NO: 1200:

15

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 236 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1200:

TTATTAGCGA TTAATAATAT GTCCTTTTTT AATAAAGGAG ATATATGTTT AATGGATGT 60
CAACATCGGA GTCATTGGCG AAAAATAGGG CTGCGGTCGA TGGAGTTCAA AACTATTTTA 120
ATGCATTACA TGTGTGAGT NAAGAGCAGG CGTACTTTTC TTTTCAAGGA TGTGACATAT 180
CACAGAGCGT ACAATAGAAA CTCAGATACC ATTACATGGA NAGTCCGCGT CCAATG 236

(2) INFORMATION FOR SEQ ID NO: 1201:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 146 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1201:

TAATGCTAAA CAGTATTATG GAGATAATGG CTTAGTTCAA ATTTCTGATG NAAGTCAACA 60
CTTCTAAAAAT TTGTAATGA AGCATTAGAC AATAACGAAC AATCAGTTGA AGATTACAAA 120
AATGGTAAAG GCAAAGCTAT GGGCTT 146

(2) INFORMATION FOR SEQ ID NO: 1202:

50

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 385 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1202:

	ATTGATGATA GTATTGATGG TAATACCATA AACATACAGC ATTATCACAA GTAAAAAGTAA	60
5	GCCTAAATGT CCATAAAATC TACTTGTCAC AATATATGTC GGTATTATCG TAACGGGAAG	120
	TCATTTCGTA CTGATTAAA CTTTGTGTA ATTGCTTTAG TACCTTCTAA ATACCTGGTT	180
10	GATGAGACCA CATACTGATA CCACCATAAC CATAAACAAA AGGTACACCA GAATTGGGCA	240
	TACTTCTTAT TCCATCCAAA CCTCCGTAAC CTAATTGCTA CGGGTAATAT TCCAGCACAC	300
	TAATAGTATT GATGTAATTA ACTGAACGGC CGCTnGATAA TAAGTCTTAC AGTCTTAAAC	360
15	GTCCATGCGC ATCnThACCC ATTCA	385

(2) INFORMATION FOR SEQ ID NO: 1203:

(i) SEQUENCE CHARACTERISTICS:

20	(A) LENGTH: 580 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1203:

	ACATTGAACG AGTACAGAAA ACTTATTGnA AATAAAGGCT GTTAAAGATA AAGAAGAAGA	60
30	TACTTACAGA GGTAAGTATT TTGCGGAAGA AAAAAAAAAA GAAAAATTGG AAAAAAGAAA	120
	TATAAACTA AAAAACAAA TTTATGAATT ACAAACGAA GAAGATAACG AGGAGGACGA	180
	AGAAGACAAG GAGGACGAGA ACGATCTATT ACAAATTGG TGAGATAAAA AACAAAATTA	240
35	TAAGCTTTAA CGGGTTTGAA TTTAAAGTGT CTGTGATGAA GAGACATGAC GGTATCAGTA	300
	TACAAATCAA GGATATGAAT AATGTTCCAC TTAATCGTT TCATGTCATA GATTTAAGCG	360
	AACTATATAT TCGACGGAT GCAATGCGTG AyGTTATAAA CGAATGGATT GAAAAATAACA	420
40	CAGATGAACA GGACAACTA ATTAACCTAG TCATGAAATG GTAGGAGGTA TGAaAGTGA	480
	ATGATTTACA AGAGAGAGAA TTAGAAACAT TCGAACAAGA CGACCGATTG AAAGTAACTG	540
45	ATCTAGACAG TGCTAACTGG GTTTTTThAG AAACThGGAT	580

(2) INFORMATION FOR SEQ ID NO: 1204:

(i) SEQUENCE CHARACTERISTICS:

50	(A) LENGTH: 139 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

55

ATCGTATGGT TGAGGCCAAT TTAAGTAAA AATTAGACAA CGAATCTTGA TGAAAAGAnA 60
 ATGATTGGCT AAAATAGCAG CTAATCAAAT CAACGATAAT GAATGCTTAT TTATCGTGCT 120
 5 GGTTCATCTA CATGGAGC 139

(2) INFORMATION FOR SEQ ID NO: 1205:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 229 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1205:

AGGAGGATAT CAGACITACA rACTATTCTT TATCATACTG rAATTCAAAT AGACACCTTA 60
 20 ATTGAAGAGAG GGGTTGACGC GCTACTTTTC rAAACGTATT ACGACCTnGG AAGnGTTAAC 120
 AAATGTCATT TCCACGGAAC GGGGAAAGGA AATACGGCGT TGCCAATCCA TTGCTCCAAT 180
 TGAACCGGTG GCAACACAA ATTGACTTGG TTGAAGGGGC AGGCATGCA 229

25

(2) INFORMATION FOR SEQ ID NO: 1206:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1206:

TCGACAAGTT TTTACAGTT CGTTATTATA TGAATGTAAG TAAAAATTC TTAGCTACAA 60
 CTTACATATT ATAAATGCAT AAATAAACA AAAAGGGGCG AAAAAAGTTG ACTCATTTAT 120
 40 CAGATTAGA TATTGCGAAT CAATCAACAC TACAACCAAT TAAGGATATT GCTGCATCAG 180
 TAGGTATTTC AGAGGATGCA TTGAACCTT ATGGTCATTA CAAAGCTAAA ATCGACATTA 240
 ATTAAAAATa CGCCAAGAGA AAACAAGGG AAgTTGTTT aGTTAACTGc GATGaGCCCC 300
 45 ACACCAAGCTG GTGAAGGTAA tCmACGGTTA CAGTTGGtTT AGCTGaTGcA TTCCmTGaGT 360
 TaATGAAAAAC GTTATGGTTG ccTTaGGGGG CCTGCCTTT 399

50

(2) INFORMATION FOR SEQ ID NO: 1207:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 138 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1207:

ATAACAATA CGATTGTAT GCTACTTGTC TGAAGACAAC ATAAACAAT ATGTTAACTG 60
 5 ATATTGAGGA TATGGGCTTT CAAAATCCan TTCAAAAAAG GTTATGTTGA AATATGACGC 120
 GGTGCTTGAA AGAGACCC 138

(2) INFORMATION FOR SEQ ID NO: 1208:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 655 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1208:

AGTCGCCTAA CTTTTATTAT CAGTCCAATC AGTTTCATCA AGTATAAATG TTATTGCTTA 60
 20 TTTTGTGATT CTGGCGSTAT TTTTGTGTCT TCTGCATAGC GCTCTGGATT TTTCTTATAA 120
 AAATCTTGGT GATAGTCTTC GGCTTTGTAA AATTGTGACG CTGGAATAT TTTTGTGGA 180
 25 ATTGCCCTTAT CAGCATTAAAT CGTATTTTTA AGCTGCTCGA TATAAGTCTC AGCGAGTTCT 240
 TTTTGATGAT CATTAGTGTA GAAAATAGCT GTTThATATT GAGGACCACG GTCTTGATAT 300
 TGACCACCTG TATCTAATGG GTCAATGACT GAGAAAAATA TTTCTAATAA CTTATTGTAT 360
 30 GAGAATAATG CAACATCATA TTGAATTTCA ACAGTTTCTA AATGACCACT CGTACCTGAT 420
 TTTACTTGTT CGTAAGTAGG ATTTTCAATA TGTCCGCCCA TATATCCAGA AGTTACTTTT 480
 35 TCTATGCCGT CAAAGGTGTC AAATGGTTTC GTCATACACC AAAAGCAACC TCCGGCAAAA 540
 TAAGCTGTAT TAATATTCAT TTTTGACATC CTTCCATTA GACCTTAGTA CGATTTATTA 600
 AGAAATCACT TGCTTTTTGA ATTGTTTTTA TATAACGTTA ATAnGnGATT ATnAT 655

(2) INFORMATION FOR SEQ ID NO: 1209:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 213 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1209:

CCGnCCCCAA TGGAAATTAC CTTTGGTnCC CCATTTTAAT TGTTAAATTA TTGGAGTGTT 60

	AATCTCACTA TCITCAAATA AGCTTGTGTA TAGTTTAACA GCTTCTTCAG CTGGGTTATT	180
	AAACATTAAA AATGTCGTGA TTTTGGAAAT ATC	213
5	(2) INFORMATION FOR SEQ ID NO: 1210:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1210:	
15	TTGATTGCAA CTTTGATAGT GAAAACATTT ACATGATGTT GTCACGGTG CACGGGCGTC	60
	GAGAACAAATC ATTGCGTTAT TGACGGTGCT GCGCTGCTGT CTCAGTTTGT TGATGCAAGC	120
20	ACTACAGGAA ACCCAATAGC nTCACCAGG	149
	(2) INFORMATION FOR SEQ ID NO: 1211:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1211:	
	AATGTTTCTC CTAATTTTAA ATGTTTAGGA ATATTAAC TA GGATAATAAA TCCAGCGACA	60
35	TCCCAAATGG GATTCATATA AGAATGTTGG ATGATAATnT TGGCCGTTAA TATACATATT	120
	TTCTATTATA AATITGGGCA AA	142
	(2) INFORMATION FOR SEQ ID NO: 1212:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 163 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1212:	
	TTTAAATTTA GTCACCTTAC CTTTTAAAGC ATGTTTCATAA AATGTTTGCA TCATCAATGC	60
50	ACGTTCTGAA CCAGAGCCTT CAACACAAGS ATAAATTTGT ACAGCAATAC CGCCTCTAAC	120
	TCTTCGTTGC GATGATGGCA ATACCACTCA ATCCAACGCT CnG	163
55		

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 765 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1213:

GTCACTTTC	ACGCTCTGAA	GAAGAGGCT	ATATAAGAAG	AGATCCAACG	AAACCACGTG	60
CTATAGAAAT	TGTAAGTGAT	CAACAAATG	ATAATATTAA	TATGGAAGAA	ACGATTTCATG	120
TGCAGTTAT	TGGTAAAGTC	ACAGCAGGTG	TTCTATTAC	CGCAGTAGAA	AATATTGAAG	180
AATATTTCCT	ATTACCTGAA	CACTTAACAT	CGACACACAA	TAGCGACATA	TTCAATATTAA	240
ACGTCTAGG	CGACAGTATG	ATTGAGGCTG	GTATATTAGA	CGGAGACAAA	GTAATTGThC	300
GCAGTCAAC	CATAGCAGAA	AATGGAGACA	TTATTGTTGC	TATGACTGAG	GAAGATGAAG	360
CAACTGTCAA	ACGCTTCTAT	AAAGAAAAAA	ATCGTTATCG	ATTACAACCT	GAATATAGTA	420
CAATGGAGCC	AAATTACCTA	GACAATGTTG	CTGTAATTGG	GAAAGTAATT	GGTTTGTACC	480
GCGAAATGTA	ATATTTTAAA	CGGTTATATA	TTATCGTAAT	TGTTAAGCCC	TCATTTTAT	540
AAATTTTGGG	nCTCTTGAAA	AAGTTACGTT	TTCAAGAGGT	TTTATTATT	CTAATCTAAA	600
TTCACTTCAA	ACAGAAATTG	CGAATTGTTA	GATAATCTCA	TTCTTTAATA	TAAATnTTGA	660
ATTACAGATT	TCTGCAAAAT	GTTACACAAA	TAAAACCTCG	CCCCCGTAAT	AATTTACAGG	720
AGCGAGCCAT	TATTATTTTT	TTCTTTCTTT	TTTATTAAAT	ATATC		765

(2) INFORMATION FOR SEQ ID NO: 1214:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 495 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1214:

AGTTGCCATC	AAAAATACAG	AACCTAATnA	TnACCTTTTA	TGATTTTTTG	TGAATTCAAA	60
GTCACTTTCT	TtTnAAGCT	TTAAATTCT	CCCCATTTT	TTAGCCCCCT	ATAAGGATTG	120
AATATCAATG	CCTTCTTICA	TTAAAATTTC	TCTAATTTTC	GAAACAAATA	ATAATGCATG	180
TTCTCCATCA	CCATGCACAC	AAATTGTATC	TGCTGTGAAC	GTTACTTCCT	TATTGTTTTT	240
TGAAATAACT	TtATyyyCct	TCACCATCTT	TAAAACCTGC	TTAAGTGCTT	CGTCAGTATC	300

ATCAGCAAACT ACTTCAGAAG CTGTAATTAA TCCGACATTC TTGCTTCTG AAATTAGATA 420
 TGAATTGTCT AATCCCTACTA ACACTAGTGA TGGATCAAAAG TCATAAACAG CTGTGTCTAT 480
 5 AACGTTTGCh ATTnC 495

(2) INFORMATION FOR SEQ ID NO: 1215:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 243 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1215:

AnTGTCAGG TACCGTGGT CCAAAATTCG ATGTACGTAG ACCATTGnCT CGTATTGTG 60
 20 AGATTGTGTT AATGATTGTC TCTGTATTAG GAAGTTTATT CTCATTTTA ACAATTAGAA 120
 AAATAGATCC GTTAAAGGCG ATTGGGTAGG AGGTGTGCAA ATGTTGAAAT TGAAATGTAC 180
 AAGTCATTAA GTGGATCTAC ATGAGCGTAA GGTCATTGGA ATAGGTTTGC TGTGACTCGC 240
 25 CGA 243

(2) INFORMATION FOR SEQ ID NO: 1216:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 256 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1216:

GGCCTCTTTT CTAANAATAAC TAAGTGAATT ATCTATATAT GAAGAGGTCT CCAATACTTT 60
 40 TTATATAATT CGTGATTACA TTCTATACTT TTAATTGTAT TTTCTGCGTA GGAAGTGTG 120
 TTTATTAATT CGATTAGTTC GAACTACAnT CAAGAAAAGG TAAATTTGT GCATGAGCAA 180
 GAGAAAACATA CCTGAACCAA AGGCACCGA ACAGTACCTA GGCCTAAGCG GCTAATTATA 240
 45 AATGCTCAAG CGCAnG 256

(2) INFORMATION FOR SEQ ID NO: 1217:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1217:

TTTATTTTTC TTCTAAACG AACATTGCT TCCTTTTG TG ATTGTTTGT ATTCTGTTC 60
 5 AACACAACAC TTACGCGCTT CCATTATCT GTGTATGGAT CTTTATACTT CTGTAGTAT 120
 CTGTATTAGT TTTCGTTATT TTGTTTTTA AATTTTTC AA TCCACATGTT TATACCTCCT 180
 10 GAGAGAACGT ACGTCTCTGA AATTGTGAAA AAATAATAAG GGTAGGTGGG CTACCCAAAA 240
 TTTAGTACTA GGTACTAAAT ATGTTATAAT AAAATAAAAA GTAGGTGATA AGATGACTCA 300
 ATTTCTAGGG GCGCTTCTTC TTACAGGAGT TTTAGGTTAC ATACCATATA AATATCTAAC 360
 15 AATGATAGGT TTAGTTAGTG AAAAAACAA GATTATCAAT 400

(2) INFORMATION FOR SEQ ID NO: 1218:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1218:

CCAAGTGTC AATTTAGATG ATTTTGTG TGACCTATCG CCTTAACTGA AGAAACTGAT 60
 30 AAATCATCCA TTTCAAAAA AGGTCTAGAA AAATCTGTTT CGAAGGtCTT AAACGATTCA 120
 TATCACGAAT ATTTTAATC GTTATATCAT TTTCTGTTAA TAATACATCT ACTTGCTTTA 180
 CGGGATCTAA CGAAGTTGTT TTAGATAAAT CTTTCATCCA TTTATTTAAA CCTTCAGCTA 240
 35 ACGATTCTAT ATTTTCAATA TCCATCGTCA TACCTGCAGC CATATGATGG CCGCCAATT 300
 TAGCGATTAA CTCCTGATGT GCTGATAGTA TTTCAAAACAT CGACACTTGA TCAATTGATC 360
 40 TGGCGGAGCT TTGTCATGAT TTGCTCCCT ATCAATATTT 400

(2) INFORMATION FOR SEQ ID NO: 1219:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 458 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1219:

AAGATATTAG ACATAAAATC TAAAAACAGC AGTAAGATGA TTTATGATTA GAAACTATCT 60
 55 TACTGCTGTT CACTTTTTAT AATACTTCTG AATGCTTCA CTTATACTTC TAGTCACAGA 120

GCATTCATTT CTGTcTAGC AACGTTCTAC TCTAGCGGAA nTAAtTAGCT ACCATCCTCG 240
 5 CTAAGAACCT TTCTTGACTT GTGACAATCG CTTCCTCTT TCCTCTCCTT CGGcTCTCGC 300
 TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTCT CGTTTCGTCA GATTCAAACG 360
 TTTTCACITC GCCAAGCCAT TTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT 420
 10 AAAAAAAGAG ACCTCAGCGT CTCAACTGG CCTGGGCA 458

(2) INFORMATION FOR SEQ ID NO: 1220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1220:

CAAAATTTAT TTCTGTAAAT GTACAATATA AGTTAAATGT TGTTGTTAGG ATTGATTCTT 60
 25 TCATCTGAGC ATTTAATTGT AAGTCGTAT ATTAAATTG TTCAGTATT AmAAATAAAT 120
 TGAAAAATTC AACTGATAAT AAAGGTGTTT TAATCATACA AATACTTGAC GGTTCGTAAA 180
 TAGTGTTTCAT TTGTAAGCAC CTCACATATT TGAATAGACA AATAGAGCCC TTTCAGGCTC 240
 30 TATTTGCTGT AATCTTAACA GCAGAAGCTA TAAAACTAC CAGTCTTAGC ACAACCAGGA 300
 GTACATAAAC TATGACTTGT AATACGTTCC TCACCTGCTG AATCATTGTA GTnATTGTTT 360
 GCTTTAACTT GCACGCTTAA ATCAAGAAGT TTTCCATAG ATAAACCTC CTATTATTAG 420
 35 TTGAAGTTAA GGCCTACTTC AATTGTCATA TTATCCCTTT TCACACAACA AATCAATAAA 480
 TTATATAATT ATAT 494

(2) INFORMATION FOR SEQ ID NO: 1221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1221:

ACTATTATTT TAATAGTGAC GACAGTTTAA ATTTTATTAA GTATTGCTTT AATTACCTTT 60
 ATGCATACT ATTTACACA AGnACCAGAA AATGCCATAA GAGAAGATGC TAGACGTATA 120
 55 AGTTCACCTG TCGACAATC ACATAATA 148

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 401 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1222:

TCGCTTTTAC ATCAATAAA TTATCTTTAT ACAATTTCGT ATGAATTACT TCTTTATAAT	60
TATAAAAAATG AGGAATTTTT TGATTGTTTA ATTCACCTGC TAATTGATTA GCTTTTTIGTT	120
GGTCTTTAAT TGTAACGTCG TGTGGTGCAG TATATTTTAT TTCACTTGAT AAGGACGCTC	180
TACTTATAGC AGCAAAGCAA AGAACTGAAA CAGTAATGCG TGAAATGATT GCCATGACCG	240
TAAAGTAAAA AGCATTTTTT TTAATACGAT ACATAATAGA TGATGAGAAC ATGACATCAT	300
TCACACTTAT AACACCTTKT CTAAACtTCT TCACCATTIT AAAAACTAGA GAACACAGAC	360
TTTTAAAAAA TAAGnGTGCC CCAATCACAG TTGACAAaAA A	401

(2) INFORMATION FOR SEQ ID NO: 1223:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 176 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1223:

CTTGACCAAA TCCATTTTTT AACAAAAGTG GTCAAGTGAA ATCCCATCTT TCCAAATCAA	60
AAAAGAGCTA AAGCAAAATG CTCTAGCCCT TGaTATTACT GATTTCCTAT CATTGThTAG	120
CGTATTAATA TTGCTTCATG TACTGATCTC TTTCCATTC AGAGACTTGA GTTCTG	176

(2) INFORMATION FOR SEQ ID NO: 1224:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 283 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1224:

AATACTTTTA CGATAATTAT AAAGGTTTCAT TCAATCTTA GGGCAAAATG TATAATATTT	60
TTATGCAAAAT TTAACAaANT AACACTTATT TCAAGGTCA ATATTTTGGAG AATAAGGAGT	120

AATGCCAATC AAACCTCGCTC GAAATAGGGG GAAACGAGGC nATCATT TTTT GACAATGAGT 240
 GTCAATAGGG AAGAATAACA ATTAGGAATG ACTCATAGGA GGA 283
 5 (2) INFORMATION FOR SEQ ID NO: 1225:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 217 base pairs
 10 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1225:
 15 AAAAGAAGAG AAGAAAGTTG AAGAACCTCA AGCACCTAAA GTTGATAACC AACAGAGGT 60
 TAAAACTACG GCTGGTAAAG CTGAAGAAAC AACACAACCA GTTGCAACAC CATTAGTAAA 120
 20 ATTCCACAGG CCATTACAGG AATTTAAGTC GGATACCACG TGAATnAGST CAGGATGTCn 180
 GCCGTTTACA TGACAGCTCT TACATATTCA CCACTCG 217
 25 (2) INFORMATION FOR SEQ ID NO: 1226:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 176 base pairs
 (B) TYPE: nucleic acid
 30 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1226:
 35 TGGTACTAT TTATTACGTA AAACCTTTTCG TTAGCGATGC CGGCATTGCA AGAGCAAGGT 60
 TTACAAAAGC GGACTAGGTT TGCACCTTCT GCTGTTCCAT CGCATATGGA TTAGTAAGGT 120
 40 CTTTATGGGn ACTGTAAGTG ATCCGAGCAA TGTCGGATAA TCTAGGTCCT GGATAG 176
 (2) INFORMATION FOR SEQ ID NO: 1227:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 45 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1227:
 50 AATGAAATA AAGAAGATGA TTTTGTGCA TATGGGTCTC CAGAACATAA TTATCAATTT 60
 55 GGTGGAAGTT TAATCAAAGT TAAAAATTTA AGCACGTTAT TAAAAACAGT ACATCAAACC 120

EP 0 786 519 A2

GC GGCCGTTT TAATTTTGT TTCAAGTTAA TCATACTTAC ATATAAAAT GAAAAGTTGA 240
 ATTTTASTA CAATTTCCAC TGTATTATC TGTAACAC TTTATACCG CAATATTTCG 300
 5 TTGATCTTAT ATAAACACT TTGGCTGCTT TTCCTTGACC TAGATTAATA TTATAGATT
 TCCTTGTAAG AGTGTGTTTG TAGTATCATA AATATGTAAT 360
 400

(2) INFORMATION FOR SEQ ID NO: 1228:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 150 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1228:

ATCTAGCATG CTTTGGAAA ACGATAAGAA TTTGGTGT TTGAATTCATA ACCAACACCA 60
 GCAGTTTCAA CAACTACGTG TGTAGGATAT AAATGTGTTA CTTGACCTTT GACATACGCG 120
 25 TACATTATAG GCACATCCTT ACATACTCAN 150

(2) INFORMATION FOR SEQ ID NO: 1229:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 138 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1229:

TCGGTACAGT GCATTTGGTG CGTCATGTT TACAAGGnAA AAATAAGTGA TCACTATTTA 60
 TCAGTATGGG AAAAAGCAAC GACGTATCAA ATGTACCATG GCTTAGCATT ATTAATTATA 120
 40 GGTGTAATTA GTGGTACA 138

(2) INFORMATION FOR SEQ ID NO: 1230:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 182 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1230:

TTGGTATGTA CTCCAATAG TAATTTCAAT AACTTTGTCT GTTGAACACT AAGAGCAATT 60
 55

EP 0 786 519 A2

CCTTGATTAT nCTAAGAAAA GTAAAAGCAC ACGGAGTATC CTATCAGAAA ACCAGTATAC 180

CA 182

5 (2) INFORMATION FOR SEQ ID NO: 1231:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 233 base pairs

(B) TYPE: nucleic acid

10 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1231:

15 TCTCTTTAAA TTGTACACAA TTCTGGATAA CTATCCCAT TTCTGTGGAT AAACACCTTG 60

ATGCTCTIATT ACTTATCCTC GTTTTATAT CCCATAITTA TCAACGGkTA TCGCTTTTTT 120

20 TCATAAAAAA aCACTACCGT ACCyCTTATT TAAGAAATAC AGTAGTATTA TTTTCAATAT 180

ATTTTAGCTA GchTTTCTAC GTCGTACAGT CGCGATTAAA CCTATACCTG CTA 233

(2) INFORMATION FOR SEQ ID NO: 1232:

25 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 385 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1232:

35 GTTTTTGGTA AAAGTACTAA TATTAaCCAA GTATTGAGTC ATATGTGTAa ACAAGATGCG 60

AATGATATTG GCTTTGTCAA ATTACTACAA AATGAGAATA ATCGTATGAG TTATAACGAG 120

40 TTAATGAGTG AATGGCAATC ACATCAACGT GCATTTTtag AAGAGTTGAG GCATGTTGAA 180

ATGTTAAAG AAGAATCTAT TAGAGCATAT GATGTTTATA AAAATTGTGA GTCTTTCTCT 240

AAGATTGAAC AGGTTATTAA TAGTGAAAAA ACAAGTATTG AAGAACAGGT ATATCATTTA 300

45 GATAATGAAA CGTTACGAGA CAATAAAGAA ATAGAAGTTT GGGATAATCG ATTTAATTAn 360

ATTGnTAGCC CAATGnCCC TTAA 385

(2) INFORMATION FOR SEQ ID NO: 1233:

50 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

55 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1233:

CTGAAAAGAT TCAACTAATC TGAGTCAGGT TACAATCTCA TGATAACCGC TCGCACCTCG 60
 5 GAGAAAGACG CTCAAACAGT ACAGAGCTCG ACCGCAGGAT ATTTTITGTG AAAATGAACG 120
 TATGAGCTGT TCAGAnGGCA CTTTATTGCG CAATAAAACG GTAAAAATCC TGAAGTGAAG 180

(2) INFORMATION FOR SEQ ID NO: 1234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 453 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1234:

ACCATTTTAA TTTnChTTAT GACCTTGTAT GCCATTATCA acAGTTATGA TTAATGTTAT 60
 GcYTTcATCA TGAGCATTTC TAAATGCTAG TTCGTTTGGT CCATATCTTC GGTAAAGCGG 120
 25 TTAGGAATAT GCCATCCTAC TTGTGCACCT AAAAGTTGTA ATGTTATCAC TAAAAATGTA 180
 GTTGCGGTAA CACCGTCGGC ATCGTAATCA CCATAAACTA GGATTTTCTC ATCATTGCGCT 240
 ATOGCTCTTT TAATTCTTTC AATAGTCTTA GTCATATCGC TCAATTGnAG TGCATCATGA 300
 30 TTGATATCTG TATCTGAAAT GATGGATTCT ATTGCTTGTn CATCAATAAT CGATTTTACTT 360
 nCTAATATTT TTTTACGAT TGGCGTTAAC TTTAATTTTG ATGTTAATTC ATCACTTATG 420
 TATTCAGCTG GTTTAGTTAA TTTCCACTTA TAC 453

(2) INFORMATION FOR SEQ ID NO: 1235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1235:

CGTGATTAAG TTGGATACTA AAATTTGGGA TGTTAGAGAA TGTGATGAAG ATTTnCAGCA 60
 ATGTCCTGAA ATTAATGAAA TAAGAGACAT TGTTTTAAAG CGGTGGTTTG ATAGGTTTAC 120
 50 CAACTGAAGC AGTTTATGGA CTGCGACGGA ATGCGGCAGA TGA 163

(2) INFORMATION FOR SEQ ID NO: 1236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1236:

GTAAACACAT CGCTTATAAC GTGTAAATAT AAACACTGTT TTATAAAAAC TTTTATACC 60
ATTACCGGCA CCGATAAATG TGTACTATGG AGCACACAA TAACGGAACT ACTTnGATT 120
AATCCCGCTA TAACATTTC TAAT 144

15

(2) INFORMATION FOR SEQ ID NO: 1237:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 204 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1237:

ATAGTTTAAAG GTGATATCA AACAAATATTA GGTTTGATT AACTATCAAG CATCTACTTT 60
GTCATGTTTA ATACCAGCAA ATAATAAAAT CCATGTCACG ATAATAAAT GCATGTTAAT 120
GCAGGGTAAG CCCAACCGGT CCAGCCATGG TGGTGGTACC CTAnTTGGCC nCCACCTACC 180
GGTTAATTAA CCACCCCCAA AAAA 204

30

(2) INFORMATION FOR SEQ ID NO: 1238:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 157 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1238:

CGGTCATTTT GGTTATTnAA CAACTATACC TGAGGGGTGG TGGGTAATTC GTATTGCCGA 60
TTCAGTTTGG TTAATATGCT GACCACGTGC ACCAGAAGCT CTGAATGTAT CAACTGTGAA 120
TAGCATCCGG ATTGGTTTCA ATCTGCTATG GCATCAT 157

45

(2) INFORMATION FOR SEQ ID NO: 1239:

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(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 164 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1239:

TTAAAGCATG TTCATAAATG TTTGCATCAT CATGCACGTT CTGGACCGAG CCTTCaACAC 60
 AAGGTAATTT GTACAGCATA CCGGCTCTAA CTCTTCGTTG CGTATGCCTG CAATTTCTTA 120
 CCTCGTACTT TAAGTCAATT TTCCGGGCAT AAGGCTGTTC ATTT 164

(2) INFORMATION FOR SEQ ID NO: 1240:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1240:

TTGAAAACT GAAAACGGTG AAGTTTACA AACAACTAAA ACAGATAAAG ATGGTAAATA 60
 TCAATTTACT GGATTAGAAA ATGGAACCTA TAAAGTTGAA TTGAACACCC ATCAGTTACA 120
 CACCACACAA GTAGTTTACA ACTATAAGTT GATCAATGTC TCACACAGTG CATAATnGAA 180
 CAACATGCCG GTCTCAACAC TCACTAGGCA GAGGATCATA ACGGTCGThG TAAGCTCGG 239

(2) INFORMATION FOR SEQ ID NO: 1241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1241:

TGATAAATAA TAGCGCCATC ATAAGTTGCA GGGTGGTAAT CATAATTTCT ACCATGAGTC 60
 TTTCCTTGA AAGACCGTGC ACCACTTTCT TTAAATCGG TAAACGATAA TnCAAGTTT 120
 AAAATAATTT GCGTGTTGG CATTGAGTA TC 152

(2) INFORMATION FOR SEQ ID NO: 1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1242:

ATCTTTACCT TTCACGTTC ACTTATGTAC CATAATACTT CTGACAGTTA CTAATTAACA 120
 GCAACTCTAA CTCATTTATA TTTAACTA 148

(2) INFORMATION FOR SEQ ID NO: 1243:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 588 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1243:

GGTACCAATC GATCGTTACA AACGTTTCGT TAAAGACGAT AAAAAAGTAC CAACAGGCCAA 60
 TGAATATCGT GAATTAGTAT TAAAGCAAT TCACATGATT ATGCTTGGTT TCTTGATATA 120
 ATATATTGTT GCTTACTTTA TTAACACATA TGCAATCATG CCGTTACAAT TAGACTTACA 180
 TGGCTTTGTC AATTGTGTGT TATATATGTA CGCATACAGC TTATATTAT TCTTGACTT 240
 TGCAGGTAT AGTTTATTG CGATAGCATT TAGTTATTTA TTCGGTATTA AAACACCACC 300
 AAACCTCGAT AAACCTTTCA AAGCGAAAAA TATTAAAGAT TTCTGGAATA GATGGCATAT 360
 GACATTATCA TTCTGGTTCA GAGATTGTAT TTACATGAGA TCTTTATTCT ACATGTCTCG 420
 TAAAAAATTA TTGAAGATC AATTGCAAT GTCCAACGTG GCATTCTTAA TCAACTTCTT 480
 CATAATGGG ATTTGGGCAT GGAACGAAG TGTAAATCCA TTGGTTTAAG GGGTTAAACC 540
 ATGGCCAGCC TTGGTTAAG GGTAnGnCC AATAAGGACG GTGGCGG 588

(2) INFORMATION FOR SEQ ID NO: 1244:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 376 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1244:

ATTGCTGGAG AAAGGCAAGG CTTTGCAGGC GCATTGAAC CGACATTAC TAGTATGGGT 60
 AATTTCATAG GTCTTTTAAT CGCAGGTGCG TTATTGTATG TACACATTGA AGCACCAATT 120
 TATATGGCTA TAGGTGTTTC ATTAGCAGGT GTTGTATTG TTTTAATTGA AAAGCAACAT 180
 AGAGCAAAAT TGAAGAACA AAATATGTAG CATAAGTATT TTGGTGATA TTGATATAAA 240
 GTAAAGCGTA ATATTATGAA TGATTAGCAT CGTTTTCTT ATGAATTTTA TTAAGAAAA 300

GTTATATGTA AAAAA

376

(2) INFORMATION FOR SEQ ID NO: 1245:

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 288 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1245:

15

CAATTGTTTC TAAAGCAAAT TCCTTACATT TCTCAGGAA TTCAGCTGT GACATTTTCT	60
TTGGGTCAAC ACCTTTTTC GTTAATGGCT TGTTCAATTG GGTAAACCAT GTGGTTATCC	120
CCCAACCTGG GTACCGTATG GGGTGGCCAT TAGGAAACCC CTTGGCAATA GGTTTTTTAA	180
TAAACCGTA nCAAAATTAAG AGGTCCTTTT TTAATAAAATT TTTGGTTTCC AAAGGGGCCA	240
ATGGnTCCCC CAATTAATGG TTAAGGTTT TAACCCCAAT TTCCCGGC	288

25

(2) INFORMATION FOR SEQ ID NO: 1246:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 161 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1246:

35

CATCATCAAT AGAACGGTAT TCGCAACGTC GTAGAAATCC CTTAAACGAC GAGAACAAAG	60
CAAGTCGACA TCAGTAAAC ATTAAAGATA TTATGGCTGA AGCAGAGAAC TTAATAACTT	120
TTTATAAATC TATACnTCC AAAATGTAAA ACTACCAAAA T	161

40

(2) INFORMATION FOR SEQ ID NO: 1247:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 421 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1247:

50

TCACTACGTT GTTTAATTGT GGTAATTGCA GTTTTACAGG CTGTCTAGT GAAGATTTAA	60
AACCTAATTC AAGTGTTTTA GTCAATGAATA TGTCCTCCTG ATTAATTTGA TAAAGATTTG	120

55

TTAATTGGT CGTTTGATGC ATCAGGGTGA ATGTTAGCGA ATCGACGCTT AAATTCTGTT 240
 TGTTCGCCGT TAGCGTCTAC TTTAGTAAAT GaTAATACAA TAGTGAATGC GTTTATTTtA 300
 CTCATATTTT AAAACCTCCT TTCACACTAT ATATCGAAAC AAAATAATAA AATGGCTAAT 360
 TTTATTTTCT ATGTTTAAAA TCTATAAAAA AGGCAATAGA TATGTGTAAC TAAAAATATa 420
 G 421

(2) INFORMATION FOR SEQ ID NO: 1248:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 409 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1248:

ATAAGCTGCT GTTGATAATC CAAGTGCTAA AGTTAAATAT AATAGTAGTC CAAAAATTTT 60
 ATTCTTCTAT AAAAACACCT CTCATATTTT AATCCATATC TCTTTTCGT TATTTATACA 120
 GAATTTTCTG AAAATAGTCA AGGTTAATTT ATTTGCTGCA AATTTCAACC ACTTTATGTT 180
 AAATGGACAT CAAAGIATAA TTGTATTATT ATTAATTTGT GCAGTGATAA AATAGACGAT 240
 ATGCAGGAAC ATGTGCGCTA TTGAGCCCGT TAAAAAGACG GTGACTAAAT GAGATTTTCT 300
 TTAACCATCA TTCGTTGTCA AAGTTTGGA AATgATGGTTG TTTTtATTTG TTTAAATTAA 360
 TCATTGCGAC TTCTATATCA ATGAAAGTTA TCTTAATATA TGAACTTCA 409

(2) INFORMATION FOR SEQ ID NO: 1249:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 217 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1249:

CTTTCaATTA CGAACAAATC ATTACTAGTT TATTTAATGA TAATGACTGn AATTAGCAA 60
 AAAACGTAAc ATGATCAATT AGCTTGAATT GGTAAAACTG TTTATCCAAC ATTTCAGAC 120
 CAAATCACAC CGGTAAAACG TCAAAATATA TTGtTCTAT GCCCGTTTTT ACCAGTATAC 180
 TCATTGCAGG TATATTGATG AATTCACAAG TTGGTAT 217

(2) INFORMATION FOR SEQ ID NO: 1250:

(A) LENGTH: 176 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1250:

10 CAGAACGTGC GGATCGTTTT TATGCAACCT AAACCAGGTA CGGATTTAGC GTGGTTAAGT 60
 GGCAGTGCAC TAAGTATATT CATTGATCCT GCATTACAC GATGAAAGCA TTTATTGCAT 120
 GAGTGGGTAG ATGCATTTTG CTGGAATGAT TCACAAATGC ATTAGAGnAC ATTTAC 176

15

(2) INFORMATION FOR SEQ ID NO: 1251:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 212 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1251:

25 TTTCACCTTT CTAAATATA ATATATCTTT TTAATAAAG CTAGAATTTC TATATAATAA 60
 ATGTTAATAA CGAAAAGGGA TGATGCATAG TGATCGCAAG CACGCCAGAG GCCGATTTGA 120
 30 TATTGCGAGT TAGTTTATAT GGTITGGGAT GATATGGATA GAATTGGTAA ACATCTCCTA 180
 AAGCATGGTA TAGTCAATT nAAAAnCTGT GT 212

35

(2) INFORMATION FOR SEQ ID NO: 1252:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1252:

45 CAGTAAGTCA ATTGAATGG CTAATTTATT AAATCTATAA AAGCATAGAG CACTGTTGTG 60
 AGTTCATAAT CAAAGATTTA TAAATGTnTC AGACTGCCAA TATAACATTT AGGACCTAGA 120
 ACATTGATTA T 131

50

(2) INFORMATION FOR SEQ ID NO: 1253:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 462 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1253:

5 TTAGTAGTCA TCGGTATTGG TGGTCTTAC TTAGGTGCAC GTGCAGCAAT CGAmATGTTA 60
 ACGTCATCAT TTAGAAACAG CAATGAATAC CCTGAmATTG TATTGTGTGG TAATCACTTA 120
 TCATCAACAT ATACGAAAGA GTTAGTTGAT TATTTAGCAG ACAAGATT CTCTGTAAAC 180
 10 GTTATTCTTA AATCTGGTAC AACTACAGAA CCAGCAGTTG CATTAGATT GTTCAAACAA 240
 TTAGTTGAAG AAAGATACGG TAAAGAAGAA GCACAAAAAC GTATATTTGC AACACGGAT 300
 AAAGAAAAAG GngCTTTAAA ACAGTTGGCT ACAACGAAG GTTATGAAAC GTTTATCGTA 360
 15 CCTGATGATG TAGTGGAAG ATATTCTGTT TTAACAGCAG TAGGATTATT ACCAATTGCA 420
 ACAGCTGGAA TTAACATCGA AGCTATGATG ATTGGTGTG CA 462

(2) INFORMATION FOR SEQ ID NO: 1254:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 25 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1254:

30 ACTCATAAGT GAATGGTTGA TTACCACTAG TTTAAACTTC ATATACTATA GTTCTTTTTT 60
 TTATTTTGCA ATTAGTTATT TTCATTATAA ACTTCCTTTC AAACACTGCT GAAATAGACG 120
 TCTTTTCAA ATAAGCATGA TTAATACTTC AATTCTTTAA TCCACATATA TTTAAAAGTG 180
 35 AGGTAGTAGG TAATAAATAT AAGACTTAAA GTTAAGATTG CTTTTTTCAT GTTTCATAAT 240
 TAAAACCTCT GTAAATTTAA GGTTAGTATT ATGAAATAAT GGATTGGTTT ATTCTTTAGT 300
 ACTAACTCG TAGTAAATTA TATAGTTCGC TAAATTGTAT TTATCTACTA TATTTTGGGA 360
 40 ATAAACAATT TCCTTTTCTT TCTTCAGTAA ATTATAAAAA 400

(2) INFORMATION FOR SEQ ID NO: 1255:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 137 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 50 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1255:

55

5 AAATCTATGT ATGGGGGCAT CCAAAGATTT CATAGACTAC TTATTTGTG ATGAAGCCGG 120
 ACAAGCAATC CTCAAGC 137
 (2) INFORMATION FOR SEQ ID NO: 1256:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 139 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 10
 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1256:
 TGAAATGTAG AAATTGAATT AGAAATGAAG ATTAAAAATC nACACGTATC GTTCAAGTGG 60
 TGCAGGTGGT CAGCCGTAAA CACAACGTAC TCTGCGTACG TATTACCATT TCCACTGGTG 120
 20 TCATTGCAAC ATCTCTCTGA 139
 (2) INFORMATION FOR SEQ ID NO: 1257:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 177 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 25
 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1257:
 TTACCANTTA TTTTAACACC ATGTTTAGAC CAATTTGATC TGACTAAATT AATCGTGTT 60
 35 TGTACTCCCA AATTGTTACA ACGTACACCT TTAGTTTTTC TAAATTAATG TATATTCAATC 120
 ACATCTTCTT CAGTTAAGGG TCAAAGTATA ATTTGTCGAA ATTGTGAAGT CGTTGTGA 177
 (2) INFORMATION FOR SEQ ID NO: 1258:
 40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 45
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1258:
 50 AAGACCAACC GAAATGAATA TCGACATGGA TTAAGCCTAT ATTCAGATGT AAACGGCGAT 60
 TATATTAAAA AGCCAATTAC AGAATGTAGT GGTTAATGAA ATATGCCCAA GAATGGGCTG 120
 TATCACTTAG GTGTATCAAA CTGACCAAAA ATTGGAAGGA CTTTAGGCCA AAAACCATGC 180
 55

TTAATTTTTC

250

(2) INFORMATION FOR SEQ ID NO: 1259:

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 170 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1259:

15

ACATTTCAGG GACATTTCAT TACATCACCC TGCCTTATTT TGGATTATGG CCTAATTTAT 60

ACTGATAAAT CTAGGAGGTG GAAAAAAGAA TGCCTGCAA TTTAATTnCA TTTAACCAAA 120

TAATGAAACA ATAAAAACA TTATATCGTT ACTTATTAAG TAATTTGGCA 170

20

(2) INFORMATION FOR SEQ ID NO: 1260:

25

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 313 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1260:

TTTGTAATCC GATACGTTGT ATTCAGGTG ATGACACTAG GAATTTGTAA TGATCAATTT 60

CTCTAATTCG TTACAATTGA TAGAATTCIT CGATTGTGG ATAGACATTC ATATCATTGT 120

35

CTAATGATTT TTGGTGATTC ATAAATGTG ACTAAAGCTT GGATGCTTnA GGATTGTAGC 180

TGAGACACAT GTTGCCTGAC TgngGATTTA TCAnATAATC TCAATCACGT GATCCnATCA 240

CATTCATCAG CTCCTAAAT CAAGATGATC GTCGTTTATG GCGATTAAT GCGCTACCGC 300

40

CAGTGTCGCG ACG 313

(2) INFORMATION FOR SEQ ID NO: 1261:

45

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 206 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1261:

TAGCGATCAT TTAATCAAGG TTAGATTATT TAATGTCAGC ATTACGTTTG ACAATGAACT 60

55

GTTTGAGGTT ATCACAATGC CATTTAACAC TATGCGCACA TGGCTGAAC TAAAGCGAC 180
 GAGATGACTT CAAACCTTGA TTAGGT 206
 5 (2) INFORMATION FOR SEQ ID NO: 1262:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 144 base pairs
 (B) TYPE: nucleic acid
 10 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1262:
 15 AAGTGTGTAC ACGATAGCTA AACTCAAATA TCACAGAACA ACAATGTCT TAGTACTTTG 60
 TGCCGGTGGT GGTACAAGTG GATTATTAGC CAATGCACTA ATAAAGCAGC TGAAGAATAT 120
 20 CATnTGCCAG TGAAAGCGGC ACTG 144
 (2) INFORMATION FOR SEQ ID NO: 1263:
 (i) SEQUENCE CHARACTERISTICS:
 25 (A) LENGTH: 132 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1263:
 ATAACGACAC CTAATGCAAT TTGAATAAAG CAGTAGAATT TGTGGGAATC GATTATTGAT 60
 35 AACCGAACTA ATAATCACAG CAAAAATAAA ATTA AAAATG CTCTAATAGT GCCTACATnC 120
 TCCTCAAATT TT 132
 (2) INFORMATION FOR SEQ ID NO: 1264:
 40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 159 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1264:
 50 TATGTC AATT TCGTAGAAT1 GGTTTTnGC GCTATTTAGA ATAGCCATCA GATAAATCA 60
 TTATTTAAAC GTATAATAGG TCAAAATATA GAGAGTTACT ATACAAATTT CTAACCTTCA 120
 CTTAAATATA AATATATATA ATTAAGTGG AGGAGAAGG 159
 55

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 132 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1265:

ATAGCTCAAG CAATCATTAT GTTTATAATG ATTGTATGGT TCTTTATAGA TGCTTTATTG	60
ATTAAATTAAT AAAAAGCTTA TTGCAAAATA TGTTTTTCGG TAACTGTAAT TTAGTGATT	120
TATCATTAAC AG	132

(2) INFORMATION FOR SEQ ID NO: 1266:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 405 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1266:

CATGGATTAT TCTTAGCGAT TGGTCTAATT TTACCTTTAG GTGCACAAAA TGTATTATT	60
TTTAACCAAG GAGCTAATCA ACCAAAATAT AGATATGTAT TGCCTGCAAT AATTACAGCC	120
GGGTTGTCAG ACAGCTTACT TATTATTATT GCAGTGGTAG GAGTWTCTAT CATTATTATG	180
TCTTTACCTG TACTTCAWGC AWTATTATTAT ATAGTTGGTT TAATTTTCTT GATGTATATG	240
GCTTGGACCA TTTGGCATGA TAAACCTCA ACAGATGGAG AAACCTCAAT TATGTCTCCA	300
ATGAACAAG TAAGTTTTCG TTTATCAGTT TCATTACTCA ATCCCATGTC TATTTTAGAT	360
ACAATTGGAG TAATTGGTAG TAGTGCTGCA TTATATAGTG GCnGC	405

(2) INFORMATION FOR SEQ ID NO: 1267:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 125 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1267:

TCTTTATATT GCAGTACAAA ATTCGCGTGG AGGTTTAACA CAAGTAGACC GCACAAGATT	60
TAGCGTCTGA AGGTATTACT GTGTAATGCA TTCGCACCTG GtATCGTTC AAACACCAAT	120

(2) INFORMATION FOR SEQ ID NO: 1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1268:

TTTGCCCAAG	TGACGTAAG	TACCAATGT	CCATTGTGAC	TTGTATCGCC	ATCAACAGTA	60
ATCATATTAA	ATGTATGGTC	AGTCGAAGAT	TTTAATAATT	GATGAAGTGT	ATTCGATTCA	120
ATCGATGCAT	CGTGTATATA	AAGCAAGCAT	GTAGCCAATT	GGGAATCAAC	CCGAnCTTGG	180
CACACATGTA	CGTTACACAT	TAGAAcNCAA	GTGACCGACG	GTAATCCTAC	CCGCTCAACA	240
CAAGCGC						247

(2) INFORMATION FOR SEQ ID NO: 1269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1269:

TCATTGTATA	TGAGCAGATT	GGCTAGGCGG	TGGCTGGACT	GACGGAATCG	ACACCCGGCT	60
GGGGTTGGGA	AAAGTACAAG	ACGCAACATG	CTATGATTTT	CCTATGTGGT	TATCGTCCGA	120
TTTAAAGTGA	GCAGCGCAGC	GTCACTCATC	TCTCACAGnA	CCTAAAAAGA	ACAGTAAGCn	180
CAACCTAAAG	CAGTGGAACT	TAAATCATC	AAGGT			215

(2) INFORMATION FOR SEQ ID NO: 1270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1270:

ACAATAAAGA	CTATTAAAG	AGATATAGGT	TAGATATTAC	ACTTTTAGAG	CAAGACGGTA	60
TAAATGCAAG	TAAATTCGTG	TATTTATCAA	TACAGCAGGT	nGAGTGAAAG	GCCACAGCAG	119

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 223 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1271:

CGTGGCAGCT TAAGCGTTTA ACCATAGCAT TAAGATGATT GTCTAGCAGA GCGGATTTGC 60
 GGGCTCACTA CAGTGCATGA TGAAGCTAAT GCTCAAATG TAACATTAAA AATAAAAGCA 120
 ACGATGTCAC TTCTTACTTC TACATCTGCC ATnTTCGTGA TTTCGTATCT ATCCCGCATC 180
 TCATCTTGAA CGTACGAGCC TAATCGCCCh GCGCGATCCT GCC 223

(2) INFORMATION FOR SEQ ID NO: 1272:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 120 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1272:

TAGTTACAAT ATCTGTCAAT TTCTGGAGAA CCACTAAAGC TATGCATAAT CCCGCCTACC 60
 TCTTCAGCAT GCTCCTCCAA TAAGATATCG GTACAGTCTT GAGnTGCTTC ACGGTTATGA 120

(2) INFORMATION FOR SEQ ID NO: 1273:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 126 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1273:

TTGCGCGGCA GTAAATTCA AACTATTGGC GTCATTTTGC CTAGCTTAAC AAATCCGnTT 60
 TTCTCAGCAC TGATGCAAAG TATTGATGAC CATAAACCAT CTGATGTTGA TTTATGCTGG 120
 TTAACA 126

(2) INFORMATION FOR SEQ ID NO: 1274:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1274:

GATTCCTGAAG GATCAATACn ACATGTACAA TTTTGGCGTA GGTGCAAAGG CATCAGGTTT	60
GCTTGCTAAT CTACATCGAA GCGGCTACCT AAATTAAATGA GAAATCACAC TCAGTTAATG	120
CATGTACTAG C	131

(2) INFORMATION FOR SEQ ID NO: 1275:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1275:

TGGAGTATTA CCTCAAGTGA ATACAACATA CCTGTTGGAA GATTTTCAA AACTTTAATT	60
GGACCAAGTG ATGCCATTGA TGAGTTAAAT CCTAATAGAT TCAGGTACCC TCGGATGATT	120
GATACTAATT TGGCCTGGCG CACGCTTTAG TANTAGTGG	159

(2) INFORMATION FOR SEQ ID NO: 1276:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 577 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1276:

GAAGTAAATA ATATATAGAA TATAACAGGA AATAAAATAG ATAATATTAA TGTTGTTTTT	60
TTACGCATTA TAACTTTAAA TTGATTTTTC AAGTAACTTA GTATCATAAT TAGATCCCTC	120
TTGCTTTTAA TTGnTGAAGT ATGAATCAAC AATTGAGACT TTTTGTATTT CAATATCATC	180
CAAAATTAATA TGAAGTGTGT GAAGATATAA AATCGTATCA TTTACATTTG AAGTAATAAT	240
TTTgATAGTG CCATTATGAT TTTyyctGAA TAACATAATC ATCTTTATCT AGTTTTAACT	300
TTCTTATATA TTCATCGGAT AAGCTAATCT GAGATTGCTG ATTGTTTCTA ATATGTGACG	360
TGGAATCATT AAGTATTATT TCTCCATTTT CAATGAGAAT AATTITGTCT GACATACGTT	420
CGACTTCTTC AATATAGTGC GATGATAGAA GTATCGTTCG ATTATCTTCT TTTAAATTTT	480
CAATAATTGA CCAAAAAATAT TCTCTAATTT CTATATCCAT AGTCGATGTT GGTTTCATCTA	540

(2) INFORMATION FOR SEQ ID NO: 1277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1277:

CTAAATTAAG GTAATAGTTA CCAAGTACCA TATCTTGTGG ATGGTGTACT ACAGGTTTAC 60
 CATCTTTAGG TTCAAGATGT TTTGATGACT GCTAACATCA ACATCTCTGC TTCAGCTGTG 120
 GCCTCTTTTG A 131

(2) INFORMATION FOR SEQ ID NO: 1278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 166 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1278:

GTTTGGGATA TTTTAGGCAG ACAACCTAAC TTTACAGAAA CAGGTATCTT TTCTGTTATG 60
 TGGAGTGAAC ATTGCTCTTA TAAACATTCT AAACCGTTTT TAAAGAATT CCTACGCAGG 120
 TGCCATGGTT TGGGCTGGAG TCAGGTGCGT TGTGTATAGC TGATna 166

(2) INFORMATION FOR SEQ ID NO: 1279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1279:

CATAATTATG AAAATGATAT GATTTTTATT AGACCATTTA AAAAAGCATA ATTTAAATCG 60
 AAGGCAGGAC ATTGAAATAT GAAATTTTCA ACTTTAAGTG AAGAAGAATT TACCAACTAC 120
 ACCAAAAAGC ACTTCAAAACA TTATACGCAG TCTATAGAAT TATATAATTA TAGAAATAAA 180
 ATAAATCATG AAGCACATAT TGTGGGAGTG AAGAATGATA AAAATGAAGT TATAGCTGCA 240
 TGTTTTATTA CAGAGGCACG AATTTTTAAA TTCTACAAAT ATTTCTACTC TCATAGAGGT 300

ATTCATITAT AAAAATAGAG GAGTATTTAT TCTTGTGTAT CCATATNTAA TAGAGAAT 418

(2) INFORMATION FOR SEQ ID NO: 1280:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 449 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1280:

GACATATCAT AAATTACATG GTGATAAAT TnTCGGCTAC GATACTAACG GATTCGCCGAT 60
 TACCTGGTTT TATCCATTAG GTGAAAGAA AGTTGAACGT AAGGCACCAA AATTAGAAAA 120
 ATAATTAAAT AAAACAGCTT AATGATGTAA TGAAATTAGT GAGTTAATCA CTGACTTCTA 180
 CGTCATTGAG CTGTTTTTTT GTGCTTTGTT ACAAGCATT ATTGAATTTA TTTTACGTGT 240
 TCATATTTTG AAACATCAAA GCCGTCTTGT TTAGCTTTGT TGATAATGTC TTTGATTGAA 300
 TGTAGTCTTT TATCGCGAA GTATGATCTT AAGTTGTCTT TTGTAGCTTG GTCAGCATTC 360
 TTATCTAATA ACACATCAAT ATAACCTAAT TCATGTTCTA AGAAGTTTGC ATCATCATGT 420
 AGTACGAGTC CATTTTGAGA ATAAACTTT 449

(2) INFORMATION FOR SEQ ID NO: 1281:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 289 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1281:

TATTATATG TACTGATGAT GAAGTTTATT ATCTATCAAG TGGATCAAAAT CCGAAATATA 60
 ATCAGTATAT GGGTGCATAT CATCTACAAT GGCATATGAT AAAATATGCA AAATCACATA 120
 ATATTAATAG GTATAATTTT TATGGAATAA CAGGCGTCTT TAGTAATGAG GCGGATGATT 180
 TTGGTGTTC ACAAATTIAA AAGGGTTTTA ATGCACATGT TGAAGAATTA ATTTGGTATT 240
 TCATCCAACC AGTAAACCC ATTCCAATAT TAATnTGCCA AACCTnAAT 289

(2) INFORMATION FOR SEQ ID NO: 1282:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 402 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1282:

5 ATTCAGGTCG AGGTGGCCG GCTCCATGCA CCGCGACGCA ACGGGGGAGG CAGACAAGGT 60
 ATAGGGCGGC GCCTACAATC CATGCCAACC CGTCCATGT GCTCGCCGAG GCGGCATAAA 120
 TCGCCGTGAC GATCAGCGGT CCAATGATCG AAGTTAGGCT GGTAAAGACC GCGAGCGATC 180
 10 CTTGAAGCTG TCCCTGATGG TGTCATCTA CTTGCCTGGA CAGCATGGCC TGCAACGCGG 240
 GCATCCGAT GCCGCCGAA GCGAGAAGAA CTAATTGATA CAACACTTTC TCAACCTGAT 300
 CTTCTTTACC TTTCACATAG CGCGTGAGCA GAACATCTT GATGgCACAG CTAATAATG 360
 15 CaATgGGAAT GATGTATGAC ATTGGGGTG CATAATTCT CT 402

(2) INFORMATION FOR SEQ ID NO: 1283:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 224 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1283:

25 TATTGACAAC CAGAGTACAA ACAGCAGCTA TATTATAGAC TTAGGCTGA AGTGGTAGT 60
 GCGGTGGACT ATTGTTGCGA CTGGACACCC GAGATATTGC TCAGCAnAGC ATCATATACA 120
 30 GGAAGTATTA AAAGAGACTT GncGAGTAAC AAATACTGAA GTAATAAGAT TAAAAGAGTG 180
 AGGTGTATAA TTATCTCGT TCTTTTATAT TAGTATGATA GAGA 224

(2) INFORMATION FOR SEQ ID NO: 1284:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 146 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1284:

45 CGTGGAGAT TGTGCATATT GATTATGCAA GGAAGnACGC CATAAAAGTG GATGCCAGA 60
 CATCTTAAT ATTATTGATA CCACATCAGA AGGTATTCAA AGTGAATCGG TGATAAGTGA 120
 50 ATCAATTAAG TCTGCCAAG AAAAGA 146

(2) INFORMATION FOR SEQ ID NO: 1285:

(A) LENGTH: 137 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1285:

10 ATTTCGGGTG ACTGGACTTG GATCCGCAAC TTGGTAATTT AAGGAATICT TGTCATTATA 60
 AGCCCTCCAT TTCATGATTT GATTGCCAC TCGTAACCA TTGGGGTTAC AGCTTCACTA 120
 GGGGAnATAC GAACCTC 137

15 (2) INFORMATION FOR SEQ ID NO: 1286:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 594 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1286:

25 GCTATTGATT ATGGTtAGCm TGTtGTTcWc TTTACTCATT GTTCCTTGGT TAAGCTCzAA 60
 AAAAGCACGT ACTTTAAAGA AACATGCAGC TAATGAACAG GCCCGATTTT TAAATCATT 120
 30 TTATGATTAT AAAGCTGGTA TGGATGAAC TCGTGGATTT AATCAAATTA ATCATTATCG 180
 AGATAATTTG ATGGCTAAAT TAAATCATT TTGATAAATTA CAACCTTAAAG AGCAACGCTT 240
 TTTAACGATT TATGATTTTA TATTAAATAT TATTGCTATG CTTTCGATTT TTGTTAGTTT 300
 35 AGTTC TAGGA TTAATTCAAA TTAATGCAGG CCAACTAAAT ATTATTTATA TGACGAGTAT 360
 AGTTTTAATG GTCTTAACTT TATTGAACA AGCTGTACCA ATGACAAATG TCGCGTATTA 420
 TAAAGCGGAT ACTGACCAAG CATTGCACGA TATTAATGAA GTGATATCTG TACCTTCTAC 480
 40 TAATGGAATA AAACGCTCTA ATGATAAGTA TGATGCAACG AACATTATG AAGTTAAGGA 540
 TGCTAGTTTT AAGTATGGA ATCAGCAAAC GTATGThTTG TCGGATATTh ATTT 594

45 (2) INFORMATION FOR SEQ ID NO: 1287:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 233 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1287:

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TGAAGTAGTA ATAAACCCGG AACCTAAAA CTGGATGGAG GATGAAACCA AAAAGGAACC 120
 5 AGCCAAGCCA AATTGGGGAA ACCAGGACGG CCCAATGGAG GTCCAACCAA TCCAAACCCC 180
 ATTCCGCTAA TGnCTATGG TCCCAATTAG GAATCCAATG GATGGATGGA TTh 233
 (2) INFORMATION FOR SEQ ID NO: 1288:
 10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 132 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
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 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1288:
 AATCCCTGTA CGTTCGTAAA GCTAGCTGGn TAATAAAAAA GAGTCTGGAA AGTAGGCAAC 60
 20 AATCAATGAC AATGAGCAGA TCCAATCGCA GTATGCTTAC TCGTGTAGA AACGCAAAACA 120
 TGGTGCCTCA CG 132
 (2) INFORMATION FOR SEQ ID NO: 1289:
 25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1289:
 35 TATCTGATAA TTCTGTACCC AGGCGITTTA ATATGTTTAT CTGGTGTCAT GATACATAAA 60
 CATGTGACCT TTAGGTCATA CGATGTCGCA AATAACTGCT CTGCGCGTTA CAACACCATT 120
 ACGGTATATC ACTThTAGCC AATCATTATC TGGG 154
 40 (2) INFORMATION FOR SEQ ID NO: 1290:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 145 base pairs
 45 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1290:
 50 AAAAGTGGCA CATGCGGCTG TAAAGTCCTC TGTITCTGAT AAATCATAAC CTATATACAT 60
 GTCTACCTTC CAACTCATCT AAGAAATAAG TCATATTTTT TTGAATGTIG GATAATCAAT 120
 55

(2) INFORMATION FOR SEQ ID NO: 1291:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 360 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1291:

CTTAATGCTA TATATTCTTT GTTTTGATA CCATTTCATC GTCTTCTCTT GATTTCATAA	60
CAATTTAGAA AATAAAAGAA TATACGCTTC AGACTTATTA AAACCGGCTA TATCATCTTG	120
ATATTGTATT AACAAATGAG TAAAGCTGTG TATTAAGTCA TCTTCTTCG ATGCAATGGT	180
AGTTAATGAT TTTACACGAT AAGCATATTT ATCTGTAAT AACCTAGCAA CTACCCACCC	240
TAAATCATGT CCTAGAATAT GTGCCTCATG AATATTTAAC TTCTCCATTA GAATTTTAA	300
ATCCTCAACG TGATCGTTTA AATCGTATGA TTCACTTTTA GAAGACTTGC CATGAcCTCT	360

(2) INFORMATION FOR SEQ ID NO: 1292:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 164 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1292:

TGTGTTAGTT GTTTATGTTG TTGATATATA CTGCTCGTGC ACATGGTACC CAGACGATTC	60
AACGNTGAGT ACACAAAATA CAAAATCTAC GGCACATGGT ACCGTTTATA AAAGATGTGG	120
AACCTTACTA GCATTGTGTT AGAACGCTAC ACGTTTAAAT CAAG	164

(2) INFORMATION FOR SEQ ID NO: 1293:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 132 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1293:

TTAATTTTCT ATATATTCTT TAGGTTATAT TGGTATCTAT GCCAGTAAGT GACATGACGT	60
TAGATCATTG AATCCAAGAT CGAaACATTG GGACATATTT ATTAACGACA TGGCTTCAAC	120

(2) INFORMATION FOR SEQ ID NO: 1294:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1294:

GTCA	TG	Cn	Ta	ACAG	ST	GAAT	ACCTAG	TAAT	TCAGAT	ATTA	TCATTTATAT	ACCTCTTAT	60
ATTT	TA	GTGC	ATTATCTCGA	AATCGAGATA	CTTAATGTAA	ATTTT	TAGTG	CAGCCTACAC	120				
TTCG	TG	ATTG	GGCAnTAGIT	CTTAAACGCT	GTGGTAAGAT	GTTAATTCAT	CCTTGGTTAA	180					
CACACA	AA	CG	CTTG	GTTAAT	GCTCAGCAGC	TAG	213						

(2) INFORMATION FOR SEQ ID NO: 1295:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1295:

AAGA	AGTTTG	AAGTCTATGA	AAACAATCAA	AAATGCCAG	TGAGACTTGT	ATCATATAGT	60
CCTG	TACCAG	AAGACCATGC	CTATATTCTGA	TTCCAGTIT	CAGATGGCAC	ACAGATGAAA	120
TGTT	CTCGn	CCAATGAGAG	GGAGAACATA	GTATCAATAG	ATG	163	

(2) INFORMATION FOR SEQ ID NO: 1296:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1296:

TAGC	TTTAAT	ACATTCTGAT	TTTTAAACGC	TTGAAATGT	TTTCAGTAAC	TAATTTTGCC	60	
ATAA	TCCCAA	AAACTCCTTG	ATTATTAACT	Gc	TTTTTGAT	TGGCTACAIT	AAGGCTTTAT	120
ACAC	ATCAGC	TCACCATGCC	CATATCTACT	AATGGTTATA	TCCCTAGAGT	CCCAGCGATA	180	
TAAC	ATCAAC	GCTTA	CnGGA	GTTTCAG			207	

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 145 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1297:

ATGGCATCGG TTGGTTATGA AAAGhCAAGC CATGGGGAGG CCATATTGG GGTGAATCA 60
 TACCTGGAAC CTTGGTGCC TACCACCAAT TGGTAACGGT TTTACCATCG GATTTTATG 120
 GATACAGCGA TATGTTTGT ACAGG 145

(2) INFORMATION FOR SEQ ID NO: 1298:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 139 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1298:

TCCAAAAGTT AAAGTCAAT TGAACAGAn AAAGCTTATT ATGTCTGGAA AAGTATTAAA 60
 AGTAATGGTA TCAATGACA TTGAACGTAA TCATTTTGAT AAGGCATGTA ATGAAGTCTT 120
 TCAAGCGTTG AATTGTGGT 139

(2) INFORMATION FOR SEQ ID NO: 1299:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1299:

GATATTGGCA ACCTCAGCC GATGACCTCA TGGCAATGA TTGGGAAGTT ATAAACCCAA 60
 CTAGAGACCA GGAATTATTG AAGCAATTAT AGAAATGCTA TCAATGATAC TTTTAAATT 120
 GTTTTTAAAC TCATTTTCAA AGTAACAAC AGTCTTGCTC GAAATTGTGA CATGATAAAT 180
 AGTGTTACTA GCATACACGC CGTTTAGGAA CCCAGAGTTT TTAAGTTTAT TTAATCGTA 240
 TTTTACATCT TCGAAATGTA GTTTTIGAAA ATACTTTGTA TGTATATCTT TAGCACTTCC 300
 AAAATTATTG GGCAGGTTAA TTTAATCGAA CCTAACTTTA CACATTCTAA ATAATCTTTG 360

(2) INFORMATION FOR SEQ ID NO: 1300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 693 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1300:

CTACAGTGCA	ATTAAACAT	GAAGTTGTTG	ATTTTGAACA	ATTATCAAAAT	GGTCAATGGG	60
AAGTTACTGT	TAAAAATCGC	CTAACTGGTG	AGAAATTCAA	ACAAGTAACT	GACTACGTAT	120
TCATCGGTGC	TGGCGGTGGA	GCAATTCCAT	TATTACAAAA	AACAGGTATC	CCTGAAAGTA	180
AACATTGGG	TGGATTCCCT	ATCAGTGGTC	AATTCTTAGC	TTGTACAAAC	CCaCAAGTTA	240
TTGAACAACA	CGATGCCAAA	GTTTATGGTA	AAGAGCCACC	TGGTACACCA	CCAATGACTG	300
TACCTCATT	AGATACGCGT	TACATTGATG	GTCAAAGAAC	ATTATTATTT	GGACATTGTG	360
CTAATGTTGG	ACCTAAATTC	TTGAAAAATG	GTTCTAACTT	AGATTATTC	AAGTCGTGTA	420
AAACATACAA	CATTACAAC	TTATTAGCAG	CAGCAGTnAA	AAACTTACCT	TTAATTAAAT	480
ACTCATTTGA	CCAAGTAATT	ATGACAAAAG	AAGGTTGTAT	GAACCACTTA	CGTACTTTCT	540
ATCCAGAAGC	ACGTAATGAA	GATTGGCAAT	TATACACTGC	TGGTAAACGT	GTACAAGTTA	600
TCAAAGATAC	ACCTGAACAC	GGTAAAGGAT	TCATCCAATT	CGGTACAGAA	GTGGTTAACT	660
CACAAGACCA	CACTGnAAAT	GCATTATTAG	GTG			693

(2) INFORMATION FOR SEQ ID NO: 1301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1301:

CATACTTGGG	TAAATGCTGCC	CATGnACGC	TGnACAAGG	TAAAGTTGCA	CGTTTAAATT	60
GTGnATGTAT	ATAAAACAGA	TGGGAACACC	ATTTGAAGGG	GATCCTCGTG	CAAACCTAAA	120
ACGTGTATTA	AAGAAATGG	AAGATTTAGG	cTTCACAGAC	TTTAACCTAG	GACCTGAACC	180
AGAATTCTTC	TTGTTTAAAT	TGGATGAAAA	AGGGGAACCA	ACTTTAGAAC	TTAATTGATGA	240
TGGTGGATAT	TTGATTTAG	CACCTACAGA	TTTAGGTGAA	AACTGTCGTC	GTGATATTGT	300

TCAACATGAA AATGACTTAA ATATGCAGAT GCTGTTACAG CATGTGATAA TATCCAAACA 420
 TTATAAATTGG TTGTTAAAAAC AATCGCACGT AAACATAATT TACACGCAAC A 471

5 (2) INFORMATION FOR SEQ ID NO: 1302:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1302:

CATGTGATTA AGAACGTTCA CTGATGAATT TTGATGATC GTTCGGTTTT TGTTCGATT 60
 TTAATGATTA TTTATACAAA AACAGCCGTA TTCAAGCGC TACATTTTAA ATTAACTAA 120
 20 ATTTGCATCT AGTTAATAAT TGCATTATC AAATTTGTCT TATTGATCCA ATCTAATTTG 180
 TACTCACAAA CTAGTTTAA ATTCTAACTT TATCTCTCAG TTCGTTATCA ATCATCAGAC 240
 ATAAACCAAT GAAGCAATCA GAAACACTC TAATTTTCTA TTAGAAATTT GATTAAATAT 300
 25 AAAAAAACAG GCTTACTTCA TATAATTTAT GAAATAAAC CGTCAATTTT TGTTTAATAT 360
 GCTTGGTGAT CTTTATTCT GCGTAATAAT GCTAAACCTG 400

30 (2) INFORMATION FOR SEQ ID NO: 1303:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 128 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1303:

40 AAAAGCTTAG TTGAACCTTC AACGTATCTT AGCTACTGAA GGTGCGAAG TTTTGAAGC 60
 AAAAGACTGG GGTAAACTTC GCCTAGCTTA TGAATCAAT GGATTTCAAA GATGGGCTCT 120
 ACAACATC 128

45 (2) INFORMATION FOR SEQ ID NO: 1304:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 141 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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TCCTTCGGAT TCTAAATGGC ATTGGACAGT GTTTACAAGC TCGCATTCTT CCACCTTTTG 60
 CAATTCTTTT TACAATTCTT AAAGCTTCAT CAAAGTTTCC TTCAATAGnA AACGATTCTT 120
 5 GCACCATACA TTACTGACTT G 141

(2) INFORMATION FOR SEQ ID NO: 1305:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 162 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1305:

GACTGGTAAA CACTAAGTGA ATTAGCTGGA CAATGAAAAA TATCCACAAT CATTAATTAA 60
 20 CGTACGCGTA ACAGATAATA TCGGTTGAAG AAATGTTGAC GTTAAAGAGTT ATGACTAAAT 120
 AGAGTAGAAT GATGGTGAGG TCGATTTTAG TAGACTCTGG AC 162

(2) INFORMATION FOR SEQ ID NO: 1306:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 282 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1306:

TTCTTAGTTG CTCGAACATA TAATTGCTT AATAATGATs TAGCTGTTAT TGTGTCATAT 60
 TCTAAAGGTG CCATAAATT AAAAATAATA GTAGTTGTTT TAAATTTAGT TGTGTTGAA 120
 ACTTTGATAT GTATATTTGG TTGAGATTGT CTACTCAAT ATATAGCCTC CTCTATATCT 180
 40 TCTTACATCT ATATTTTTCT AGTGATTTTA AATTGAACATA AGCTATTTTT CATATAATT 240
 AATGAATACA AAATAGGTTT ATCTGATTCA TTATAGTCGC TA 282

(2) INFORMATION FOR SEQ ID NO: 1307:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1307:

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AAGGAAAAA CCCCTGGCCT TTGAAAAA CCCAAAAGGA AAGGGGTTTA AAAAAAAA 120
 AAGTTTAACC CGGTGGCCC CAATCCCCG CCGGGAACC CAAAGGAAT TTTAAAAAG 180
 5 GAAACCAAT TCCCGCCGG AAAAGGTTT TTAAGCCCA CCGATTTTA AGGAAACCA 240
 TTTTAAGATT ACCTGGGAAA AAAACCGTT TAGGAA 276

(2) INFORMATION FOR SEQ ID NO: 1308:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 692 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1308:

20 TGTATTAAAT GCTCGTACAC ACAATTACAA AACTGCAAGA GAAAAGCAT TGAGTAATAA 60
 TCATATTCCA GAAATGTAT ATGACAACT AGTAAAACT GTACATAAAT ATTACCATT 120
 GCTACATAGA TATACTGAAT TCGCAAGA ATTGCTAGGT TTAGTGACT TGAATATGTA 180
 25 TGATTATAT ACACCATTA TAAAGATAT TAAGTTTGA ATGCCTTATG AAGAAGCTAA 240
 AGAGTGGATG TAAAAGCAT TAGAACCAAT GGTGAAGAA TATTAAATG TAGTTAAAGA 300
 AGGCTTAAAC AATCGTTGG TCGATGTCTA TGAGATAAA GGTAAACGTT CAGGTGGCTA 360
 30 TTCATCAGGT GCACATTTAA CTAATCCATT TATTCTACTT AACTGGTCTA ATACTATTTC 420
 AGACTTATAC ACATTAGTTC ATGAATTTGG GCATTCaGCA CATAGTTAcT TCaGTAGAAa 480
 35 ATTCCaACCG TCaAATTCta GTGACTCaC TATTTTGTG GcTGAAGTTG CatCAACTTG 540
 TAACGAAGCA CTTTAAAGTG ATTATATGGA TAAACATCTT GATGATGAAA AACGCTTATT 600
 ATTATTAAAC CAAGAATTAG AnCGTTTCAG AGCTACATTA TTCCGACAAA CAATGTTCGC 660
 40 AGAATTTGAG CATAAnATTC ATGCAATTGA AG 692

(2) INFORMATION FOR SEQ ID NO: 1309:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 151 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1309:

GGCATTTTCG ATGATAGCTT TTTTGACTGG ATTACTAAA ATGAAAGCAA GTACTATATA 60

atCGAGTAAT ATCTATATAT GACATTTTAA A

151

(2) INFORMATION FOR SEQ ID NO: 1310:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1310:

TGTGCATTGT ATAATATCA CTATGATTCTG TGGTCATTCA CATCGTCTAC GCTCACCGGT 60
 CTAAACGTAC CTAACCCAAC ATGTAATGAA CAAATCGCAT ATTACACCT TTATT 115

(2) INFORMATION FOR SEQ ID NO: 1311:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 164 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1311:

CACCCAAGT ACCTCAATGG TATAATGCAT TTGTGAATAC CGAATATCAT TGGAAATATCT 60
 CCTATCATAG GAATATAATA TGTATATATC TTCGTAATCh TGTTCATTTT TAAGAAAATC 120
 AATAGAAGTG TATCGATTAA AACTACATTT GAACCATTAC TTG 164

(2) INFORMATION FOR SEQ ID NO: 1312:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 141 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1312:

GAGGAAAATC GAAGTGAAT TATTAATAA TGGCGATGGT GGAATACGAA TAGATGGTGG 60
 TTTAATAGGC GGCTTTATTC GGGTGTATT GTATGTAAGG TGAATAAATTT AAnCCCATTT 120
 CAAATGGTG ATATCGTTGC G 141

(2) INFORMATION FOR SEQ ID NO: 1313:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1313:

AATTGGTATT ATGCATAGTG CAATGGATGC TGGTATTAAA nTCCAGAGGA TTACAATTAT 60
TAGTTTCAAT AATCACGATT AGTTGAGATG GTTAGCCACA ACTTCTAGT GTATCACCAT 120
TATATGTATC GGT 133

(2) INFORMATION FOR SEQ ID NO: 1314:

15

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 629 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1314:

TTGCAATTAG AATGCTGTTT CACCCCTTTA AACCATACTA TATATTTAAA TTTAGAGTCC 60
CATTTCACCC AGGTTTAATA CGAAAAGAC GCGAAGAAAT TGCAACTAAA ATTGGCCAAG 120
TGATTGAAGA GCATTTGCTT ACAGAAACTT TAATTAAATGA AAAATTGAAA AGCGAGCAAT 180
CACAGCAAGC AATAGAATCT ATGATTCAAC AGCAGTTACA AAAGTTGACG AAAGATCAAT 240
TGTCATAAAA ACAAAATTACT TCTCAAATCG tATTGATTTA GAACAAGTAT TACAAACTAA 300
TGGAAATCAA TATATTGAAT CACAATTGAA TAATTATTAT aCAAAGCaTC AAAACCAAAAC 360
AATAGCATCT TTATTGCCAA ATCAACTTGT AACATTTTTA AATCAGCATG TAGATAACGC 420
AACAGACTTA TTATGTGATC GTGCAAGGAA TTATTATCA TCTGCAAAAG GCACACAAGA 480
TATTAAATGAT ATGTTGGATA CTTTTTTCAA TGAGAAAGGT AAGTTAAATG GTATGTTGCA 540
AATGTTTATG ACAAAGAGA GTATTGCAGA TCGATTCAA CAAGAACTTA TACGTTTAAAC 600
ATCTCATCCT AAAGCAAGAA CAATTGTGA 629

45

(2) INFORMATION FOR SEQ ID NO: 1315:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 399 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1315:

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ATACAGGTAC GTTCGTTATC AATGGTGCAG AACGTGTAAT CGTATCTCAA TTATTCGTT 120
 CACCATCCGT TTATTTCAAT GAAAAATCG AAAAAATGG TCGTGA AAC TATGATGCAA 180
 5 CAATTATTCC AACCGTGGT GCATGGTTAG AATATGAAAC AGATGCTAAA GATGTGTGAT 240
 ACGTACGTAT TGATAGAACA CGTAACTAC CATTACAGT ATTGTTACGT GCATTAGGGT 300
 10 TCTCAAGCGA CCCAAGAAAT TgTGACCTT TAAGGGGACC AATGGAATAT nTACCGTAAT 360
 ACCTTIAGGA GGAAGACCG GCACCTGAAA CCACTGGAA 399

(2) INFORMATION FOR SEQ ID NO: 1316:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 778 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1316:

ATAAACATTT TAAnATGTAA TThAGAAATT TTTTGTATAC AAAATCTTTC TTAATAATGA 60
 25 TTAAGGAGGT CAGTAATGAT TGAAnTTAAA ACATTAACGA ATAATGATT TAATGAGTAT 120
 AAGAGACTTG TTTCGACAGT CAATGAAGAA TTCACTCAAG ATTCACATTA TAGTCAAACA 180
 ATGACTGACA CTTTAATACA TGACATTTTA AATCAAGGTT CACCGAAATG TATTGTATTT 240
 30 GGTCTTTATG AAAACGAAAC ACTTATCGCA ACAGCTGCCT TAGAACAAAT TCGATACGTT 300
 GGAAGAAGAAC ATAAATCATT AATTAAATAC AACTTTGTTA CTAATAACGA TAAATCGATT 360
 35 AATAGCGAGC TCATTAAATT CATTATTAAT TATGCACGGC AGAACAAATTA CGAATCTTTA 420
 CTTACATCAA TTGTGTCAAA CAACATAGnn GCTAAAGTTT TCTATAGTGC ACTAGGATTC 480
 GACATTTCTG GTTTTGAGAA AAATGCAATT AAAATCGGAA ATACCTATTT CGATGAACAT 540
 40 TGGCTTTTT ATGATTTGAT TAATAAGTAA TACAGTTTTA TATATTCTAC rTTTCTCATA 600
 AATTCAAATC ATATAGGTTT TATTTTTCAT ACACTACTC TACTATTGAG TAGTTGTTTT 660
 TTTATTGATA TGATAACAAT AAGTTTTTTT CAGAATAATC TATGTTTTAG GGGTGTCAAA 720
 45 ACTTAATGGG TAACCGCAAT TATTCATGGA nTTATnTAA GCGATTGGT CCTAAnTT 778

(2) INFORMATION FOR SEQ ID NO: 1317:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 465 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1317:

5 TGCACAAGGT GGTGAGCAA TTGCAGCGTT CTTTATTATT AAACAAAATA AGAAGTTAAA 60
 AGGTGTGGCA TCTGCCGAG TATTTTCAGC ATTACTTGGT ATTACAGAAC CGGCTATGTT 120
 TGGTGTACT TAAAACTAAG ATATCCATT ATTGGCGCTA TCGTTGGATC AGGTATTGCT 180
 10 TCAGCATATA TTGCTTTCTT CAAGGTTAAA GCAATCGCAT TAGGAACTGC TGGATTGCCA 240
 GgATTtATTT CAATCAATCC AGTACATGCA GgaTGGTTAC ACTaCTTTGT TGGTATGACA 300
 ATATCATTCA TCATTGCTAT AACAGTTACT TTAATTTIAT CtAAaAGAAc AGCAAATAAA 360
 15 GAAGTTGTAG AATAAAAAAA GAGGTATGAC AGTAATCAAA GTATCAGTCA TTGCAAAATGC 420
 AATAGGATGA AACTTTAAGC TGTCATACCT TThAATTIAG TTATA 465

(2) INFORMATION FOR SEQ ID NO: 1318:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 150 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1318:

30 GACTTAATAT AACTGATCTT TTGCTATTAT TGAACATAT TTATAAGAA AATAGCATTG 60
 CATAATACCC AGCAATAAA TACTATAATA TTTTGAAGT AACTAATCAA ACATCTAAGA 120
 CATGATTGAT AnCACCACAG AAAAATAAGA 150

(2) INFORMATION FOR SEQ ID NO: 1319:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1319:

45 CCACCTTTTA AGTACGTAT CCATGAATCA TATGATTAAT TTAATATCAT TATTACTTAT 60
 TTCTTATCTT TATThCTTT TTTCTTCTG AAAAGTAGTA ATGAACCTAT TGATGCTAAT 120
 AATCCCCAAA T 131

(2) INFORMATION FOR SEQ ID NO: 1320:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 140 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1320:

TAGTGTCCAA ATGAAAGTGT GGCTACCTAT AGCTGGTCCA TGAAGCTTTA TTTTAACTG 60
GTTTGTACAA TATTTAAATA TCAAAATCTT CTCGCGnTTT GGACAGTTTT TTGTGTATTA 120
ACCATTAAATA AACGGAAAGA 140

(2) INFORMATION FOR SEQ ID NO: 1321:

15

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 140 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1321:

CTTATTATAT AATTCTAATC CTAGTACATT ATACATTTTA TCAAAATAGTC AACTGGATAA 60
CTTTGAAAGT GAATGATnCT TTTAAATAAA AGAAGATAAT ATAAAGTGCT TGATAATGGA 120
TTTGTAGTTG ATGATTTAAA 140

30

(2) INFORMATION FOR SEQ ID NO: 1322:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 185 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1322:

TCGTTGCAAC ACAGGCACTA TTTTACCTTT ATATGTTGTA ATAGTTTGAT TGCTGCCATT 60
TAAACAACCA CCTTCTTATC TCCACAAATT TACCATGAAT AGCGCGCGCG CCATAGCGGG 120
ATACTAAAGT GTTTCGCACC TTGCCTGTCT CCTTCAAnTT TCGATTACTG TAGAGCACAA 180
GTACG 185

50

(2) INFORMATION FOR SEQ ID NO: 1323:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 148 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1323:

ACCTGCAATT TTGTTATTTC AAAACAATAA CTATGCAATT TCAACACCAC GGAGCAAGCA 60
 AACTGCTGCT GAAACATTAG CTCAAAAAGC AATTGCTGTA GGTATTCCTG GGTATCCCAA 120
 GTTGTTGGTA TGGTGCGGTA nTTGGTTT 148

(2) INFORMATION FOR SEQ ID NO: 1324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1324:

GAAAGCATTT ATGGACAAAG ATGAACCACC AAATGAATGG CGATTAGATT CCAATTGATA 60
 TGGCTCACGG AAAATTTATG CTACAATTGC GTCCAGTAA CAGTGGCACT AATAGTCCAC 120
 TTAnGCTCCC TAGTGGATGA A 141

(2) INFORMATION FOR SEQ ID NO: 1325:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1325:

TTATACTATC GTGAAGGGIT TATTACTCAA TTAATGCCTA AAAAGGATAA AAGTTATTTA 60
 GTTATTGATA ATTITTAATCG TATAGATACA GACATTTTCC AAACGTATAT TAATGTGTTA 120
 GAAGGCTATG AAGTAACATT ACCACGTTAT AATAAAGACG GTAATATGAT TAAATGGTCA 180
 CGACAAAAAG ATTCTTTCTA TTAT 204

(2) INFORMATION FOR SEQ ID NO: 1326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1326:

TTTGITAAAA GTCTTCATTT CGGATGAAGC TTTATCTATT GAACGCTCCA AATTATTTAA 120
 AGCAGCTTTT TCITTATTAA CAGCTGT 147

(2) INFORMATION FOR SEQ ID NO: 1327:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 530 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1327:

CATTAAATGA AGAAACTGAA CCGGAACTA TACGACGCAG AAGGCAATTT AATTAATAAT 60
 AGTAAACAT CCAGCTTAAT CCATIGATGT GTTATAAAG TGAAAAGCTC CAATCAAAGT 120
 TGACGCTCAA ATAGTTTAAC TTIGATCGGA GCTTTTTTAT AATGTATACC GAAAGGTTCA 180
 AATATTATAT AATGSTATAGAA TTGAAAGAGA ATATAAAAAA GTGAGGATAT AAAATGAAAG 240
 TTAATCCTAA TAATATAGAA TTAATCATTAT GTGCAGTAA AGAAGAACAA TATCCAGAAA 300
 CAGAATTGTC TGAAGTGCAC TGAGCGGTGC ATCTAATGTA GGTAAGTCTA CATTTATCCA 360
 ATAGTATGAT TGGCAGAAAA AATATGGCAC GTACATCACA GCAACCCGGC AAAACGCAAA 420
 CGTTAAATTT TTATAATATA GATGAACAAC TTATTTTGT GGATGTTCCA GGGTATGGAT 480
 ATGCTAAAGT AAGTAAAAA CAACTGAAA AATTGGGAA AATGATTGAG 530

(2) INFORMATION FOR SEQ ID NO: 1328:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1328:

AAGAAAGTTT GATCTAGGCC AACCTTTCTA ACAACGATAC GACAGTTTAA TAATGTCTCA 60
 TATCTTGACT TCACATGATG ATATGGTCTG TAATCACATC AATGACTTAA ATCTGGATGA 120
 ATAGATGCGA ATGGATCTTG AAAAATCATT GTA 153

(2) INFORMATION FOR SEQ ID NO: 1329:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1329:

5 TGTAGTTCGT TTGTCTCTA ATTAACGGT CGAAACCATG GATTAGACCT GCGATTACAA 60
 CTGCAATGAT ACCTGAAGCA TGAACCTCTT CTGnTAAAAA GTATACGACA AAAGG 115

(2) INFORMATION FOR SEQ ID NO: 1330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1330:

20 AACAAATTAT CTACATCTGC TGATAGGCAT ACTATTACTA ATAAATAATG CATCTTTTGG 60
 CCAGATGTTT TCTTAATCAA TTGCACCAAC GAATGGCACT CTCATCTGTA Gn 112

(2) INFORMATION FOR SEQ ID NO: 1331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1331:

30 TTCATTGCAG ACAHTTGGTG AACCATGTGG ACGAACCTAGT CCTAGATTAA GATAAGAGAT 60
 35 TAGTGAnCAT TGCCACCACT GCAATTAAAC ATTCTTGGAA AAATTAACCTT AAGTTAGAAT 120
 CTTAATGCAT ACAGATACGG CGAAGATGAT GCCAAAGAAC GTCACGACTT TATGATGATG 180
 ACTGAACCCA GTTTTTACGG AAG 203

(2) INFORMATION FOR SEQ ID NO: 1332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1332:

50 ATGATGTACT AATATCTAAT AAGCTTGCTA AGTCTTGAGA CCTCATTTTA ATCACCTTTT 60

GACTATCTAT TTCTGTTAGT ACGTTTGACA TATTAATCAC TCCaCyTTAA CGCaATAwAw 180
 TTTAwTAGCG TTGGCTATTG TTGTTTAACG CGATGGnATT TACAACCTGT AACGTAAGAG 240
 AATGAAAAAT AAGCTGnATA TGTGTTTGT 269

(2) INFORMATION FOR SEQ ID NO: 1333:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 142 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1333:

TAGCTTTTGC CCAATATGGT GAATCATGCG CGGTTCTGTA ATAATCTTCA CTGGCATTCC 60
 TTGGAAATTG AACACATCC TGTTCAATTT TATAGATTGC TTAATGGTA CAGCTGAAAA 120
 ATCAAAGTAA TGTCTTTTC TG 142

(2) INFORMATION FOR SEQ ID NO: 1334:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 211 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1334:

ACTGATGCCC AATATGCATC TTGnCAATTG CAGGTGTGCA TGACTAAACA CATGACAAAT 60
 CTGCCTGACT TTTGCTGAC CCATAAATAA TTGGnCTAAC TTTTGCATC TTGACTTGC 120
 ATCCTTGCTT TCCTATTAA AATGCTACAA ATAAATTTC CGGCGAGTGA ATTTAATGT 180
 TTTACAACGC TGTCAATAC CTGGGAATAA G 211

(2) INFORMATION FOR SEQ ID NO: 1335:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 129 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1335:

CTTGAATCTC TTGTGCTCT GTGATGTATC ATCAAATTAT TTGACTGTCT TCTCTTTTA 60

TCGCTCGC

129

(2) INFORMATION FOR SEQ ID NO: 1336:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 633 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1336:

15	CATGATGGCn TCTTACCAAA GGCgATTtTA AGAGCAATGA TACCAAGATA TTTTAAATAC	60
	TGATCAAAGT TCAGGTGGTA GCACAATTAC ACAACAACCT GTTAAAAATC AAGTCTTAC	120
	CAACGAAAAA ACATATAGTA GAAAAGCAAA TGAATnCGCC TAGCAATTAG ATTGAACAC	180
20	CTACTCTCAA AAGATGAAAT TATATATACA TATTTAAATA TAGTCCCTC GGTAGAGATT	240
	ATAATGGCGC TAATATTTCC GGAATTGCAT CCGCTTCATA TAGTCTATT GGTATTCCAC	300
	CAAAAGATTT ATCAATTGCA CAATCTGCAT ACCTTATCGG TTTGTTGCAA AGCCCATATG	360
25	GCTATACACC CTACGAAAAA GATGGAACGT TAAATCGGA TAAAGATTG AAATATAGTA	420
	TTCAAAGACA ACATTATGTA TTAAAGCGTA TGTTAATCGA AGATCAAATC ACTGAAAAAG	480
	AATACAACGA CGCATTAAAA TATGATATTA AATCACATT GTTAAATCGA AAAAAGCGTT	540
30	AATTGATGCT CACTTTTTAA AGTAACCACA ACAATGAATC CAAATATTAA AAACAGCAGT	600
	AAGATTATTt TCAATTAGAA AATTCTCAC TGC	633

(2) INFORMATION FOR SEQ ID NO: 1337:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1337:

45	ATCAATATTt AGCAGTTATC ATTATGCTTG AACGGTGGT AAAGCGGAG AAGTCATCCA	60
	CTTTTTCTTA TACTACAAGG ACCTTTACTT TAAAAACAG AATTACAAA ATAAAAAGCA	120
	TAATTTCTTT TCTGTACAT CGCTCATTCT AACTACTAGA CTTTTAAAT CGTTCCTGTA	180
50	ATTTAAACTC AATCAACTnT CAATTAAATGA TGCATAATAT GATTATAAGT ATAGTAGTtA	240
	ACTTCAAATA TCTTAGAAAT GTCCTGTACT ATATCTCTTT TATTCTCAAA AGTCATAGGT	300

(2) INFORMATION FOR SEQ ID NO: 1338:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1338:

TACGGCATAT ACCTCGTICA TCAATGTTG TAAACATTAT TTAACATC TCATTACATCT 60
 TCGCTTGGAA GTTCTTCATA GTCGAATTTC ATGTGTTTAT CAAAGTTTTTC CATTGCGAC 120
 ACTCC 125

(2) INFORMATION FOR SEQ ID NO: 1339:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1339:

GAGCTTCGTT CCATTGTTAT CAAACGATTG CCATTCTGAA ATGCTGTAAA TAGCATGCTT 60
 CAAATCATCT TGTGCCTGCA GCAGTTTCTT TGAATATGC TTCATATCAT T 111

(2) INFORMATION FOR SEQ ID NO: 1340:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1340:

TCACACGTTT AGTTTTCTAT GAATACCAAT ATTTTAACAC CATGTTTAGC CAATTGTCT 60
 GCTAAATTAA TCGTGTTTGT CCTCCAAATT GACACGCACC TTTAGTTTTT CTAATAAATG 120
 ATATCATCAC ATCTCTCAGT TAAAGTCAA AATATTG 158

(2) INFORMATION FOR SEQ ID NO: 1341:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1341:

5 GCTTCAGGTC AATTAAACG TTCAAGAGCT TTCACATCTC ACTTATTCGC AAACAAGAGC 60
 ACTAAACAAA AACGTCAATT ACGTAAAGCT AGATTAGTGT CTAAGAGCGA TATGAAACGT 120
 GTAAACCAAT TATTAGCATA CAAAAAATAA GAACAAATAC AGAAATCGGT AGGAATTACC 180
 10 TAAGGAGGAA TTTTATATGC CACGAGTTAA AGGTGGAAAC GTAACAAGAG CGCGTCGTAA 240
 AAAAACGATT AAATTAGCTA AAGGTTACTT CGGTTCAAAA CATACATTAT ACAAAGTAGC 300
 TAAGCAACAA GTAATGAAAT CAGGTCAATA TGCTTCCGT GACCGTCGTC AACGTAAACG 360
 15 TGACTTCCGT AAATTATGGA TTACACGTAT CAACGCAGCA 400

(2) INFORMATION FOR SEQ ID NO: 1341:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1342:

25 GTTGAACAAG GGCAACAAAA ATTTCGAGCG AAACAGATT TTGAATGGTT ATATCAAAAA 60
 30 AGAGTAGATT CGATTGATGA AATGACGAAC TTATCGAAAG ACTTACGACA GCTTTTAAAA 120
 GATACTTTA CTGTTACAAC TTTAACAAC GTAGTAAAC AAGAAAGTAA AGACGGTACA 180
 ATTAATTTCT TATTTGAATT ACAAGATGCG TATACAATTG AAAGTGT TTTT AATGAGACAT 240
 35 GATTATGGAA ATTCAGTATG TGTAACGACA CAAGTAGGTT GTCGCATCG ATGTACGTTT 300
 TGTGCTTCTA CACTTGGCGG CTTAAAAAGA AACCTTGAAG CTGGCGAAAT TGTTCACAA 360
 GTTTTAACAG TTCAAAAAGC CTTGATGCT ACAGAAGAGC 400

(2) INFORMATION FOR SEQ ID NO: 1342:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1343:

50 GAAAAATTCA TCAGGTGTTG GCyTGAACG TACATTCCCA TTACACACAC CAAAAATTGA 60

TTTACGTGGT AAAGCTGCTA GAATCCAAGA AATTCGTAA TCAGCATTTA AACAAAGCTA 180
 TGTATGAGTC AAATTCGACT CAAACAATAA AGCCATCTAG GTCACCTTTA TGGAGTGATA 240
 5 TAGATGGCTT TTTTGTCTGT TTAGTTAATG TAAAGTGTAT AATGTAATTG TTTATTCCTT 300
 CTCTATTTCAT AACGTGTTTG CTCAAAATGG TTATATAAAC AAAAATCTAC TAAGTGCCAT 360
 10 TGAAAGGAC TTAGTAGATT TATTAATAT ATGCGTAA 399

(2) INFORMATION FOR SEQ ID NO: 1344:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 134 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1344:

20 AACTTACAAC ACCAGGTAAT AACAGCAATA AAGGCACCAG TTAGTGGCGT AATGCCAATA 60
 TCTAGGCCTT TAGGTGCGCA TAGTAGGAGA TGTAGAGGTA CTAGAGGAAT GAGTGTGCT 120
 25 AAAGTTGTCG TCGT 134

(2) INFORMATION FOR SEQ ID NO: 1345:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1345:

35 TCATAATAAA CAAGTTCACA TGAATCACAA CATCTGAAGA CAATGTTCAA AATGAGGCTG 60
 40 GCACAATAGA TGATCGCAAG TCGATCATC ACACAGTACT GAAGCAAGA 109

(2) INFORMATION FOR SEQ ID NO: 1346:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1346:

50 CCTATCTGG nACGACCGAC ACCTTTACCA CCAACGATTG GTGCCATTGT TTTGCATAAG 60

55

(2) INFORMATION FOR SEQ ID NO: 1347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1347:

CAATTGAAAG GTGAATTITA TAGTCCCATG ACAAACTAAG GCTTGTTAAA GCTTATTAAC 60
 ACAGTTTCAT CAAATAGTITA AATTAGTTTT TGTTTGCAG TAAATTGGGT ATAGATTACA 120
 AaTG 124

(2) INFORMATION FOR SEQ ID NO: 1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1348:

CATCAGTGGC CTGATCACCC CAACATTGGA CATCAATGCA TACCAGITGA TTTGAACAAT 60
 GATTGCATTG AGCTATCATC AAGTTTGTCT TTAAGCTACT AAACCCACGA ACCATGTTAA 120
 CCCCCTGGTC ACCATCACCA ATTGCTCGAT CTAATTCAGT TAATTCAGAT TCATGTTTTT 180
 TAAACGTTTC TTCTAAATTT AATAAACGTG CTTTCATATC ATcAtttCAT TGTGCaCtaT 240
 AAaTGtATAT TaTTcATATT CACTTCThAT TTAAAGTATG ACTTGTGTGT GGTGCTAAAA 300
 ATGChTCcAA ATATTCTGGT TTATnAGGCA CGATAGT 337

(2) INFORMATION FOR SEQ ID NO: 1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1349:

CAGCAGCTAA ATACAACAAA GCGATCCCCA GCTTGTGGCA CATCATTAAAT ACCTGTAATT 60
 TCAACAGCGC TTGATGGACC AGCGGTTTTG ATTCTTTGAC CTAAGTCATT ACATGCCGAA 120

(2) INFORMATION FOR SEQ ID NO: 1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1350:

CAATTTTACT TIGAATTCTT TTTTATCTT TCTAGTTTT ATCGTCCAC TCTCAATCC 60
 ATTTTITAGC TTTATCTTCA TTATTAGTCA ACTTGCCTAT TTCTTTTAAAT ATTCTTTATG 120
 ATGTATTTA TTGTATGTAT ATGGGATTGT TGGCGCTATT TTTTGGTATT TTTTATATAT 180
 TTTATCCATA GcATCTACAA CAATTAAATC TGGTTTtGcT TTAGCAACTC TTTCAACATC 240
 ATTTTCTCCA ATATAATCAA CCCCTTTTAA ATAAGGTTT AAAATTGAAG AATCTTTAGT 300
 TATATCTGAA ACAGCAATTG GTTTGATTCC TAACTTTATA AAATCACCAG CATAAAATCC 360
 AGTTAATACA GCAACTCTTT TAAGGTTCTC nGGGACTTT 399

(2) INFORMATION FOR SEQ ID NO: 1351:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1351:

TAAAACTTAG GCGGTTTIGC ATGATTATAG CGCTCAACAC GTTTGAAATT ATAGGTCATC 60
 TCTGGTATTC TTGTAGGATT CTTTTCCAA TCTAAATCAA AGTTTCAAT TTCTTCTTTT 120
 GAGTTTAGAC TTAATCGATC ACGTTCATGT TCTTTAAAG ATGGAATAAC TTGTTTAAGT 180
 GACCCTTCCA TTCTTAATTG ACCATGTGAA AACCAGCTA TGAGTTTACT CACTTGTGA 240
 ATTTTATCAA TATCATCACC AATTGACACA ATCGTTAAAT TATTTCAAT ATAATCATTT 300
 GTTAATTCAA TCGCACGTTT CATAAATTGT GGTGTTAAAT AGTCAATAAC ATGATTTAAA 360
 ATAATAATAT TTGATTTTGA TGAGCGTGCA ATACTTAATA 400

(2) INFORMATION FOR SEQ ID NO: 1352:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1352:

5 AAGGGAACAA AAGCTGGAGC TCCACGCGG TGcGgCcGCT CTAGAACTAG TGGATCCCC 60
GGGCTGCAGG AATTCGGCAC GAGCATATCT AGTATTTTAG GACGGAGGnA GTACATT 117

(2) INFORMATION FOR SEQ ID NO: 1353:

10 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 153 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1353:

20 AGTTCAGGAG AGTTATAAAT ATTAGGGTGG TACATGCCCG AAATCATTTGG AATTGTTAA 60
GTAGATTITA CAGTTTAGAG ATAACAGACA TGTCTATATG AAGGGCTGTC TACCCTCGTA 120
AGGTTATATC CTACAGnTGA ACGTATCAAG CTT 153

(2) INFORMATION FOR SEQ ID NO: 1354:

25 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 159 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1354:

35 TGTTGTAACA GCTCTCTATG TTACGTTGG AAGTATGGTT TATTTTCAT CTCACATT 60
AGTTCCTTAT TAAAAAGTGA TAGAGCAATT GCACTCGTAG GTCAAGAAGC GGGATGCCAA 120
CACAAAGTTC ACAAGAnAAT ACACTTTTGA AAATATTGG 159

40

(2) INFORMATION FOR SEQ ID NO: 1355:

45 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 118 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1355:

50 CGnCTTCTCT CAACCATTGT AGAAGTTGTC TCATATACTT ACTACGGCTT GCTAATACTC 60

55

(2) INFORMATION FOR SEQ ID NO: 1356:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 110 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1356:

GGATTCTATTG GTGCTTATTT ATTACATTC AATAATGAGA nCTTACACA ACCAATTGGT 60
 CAAATTATAG ATGTCAACAT GTTCTTCGA CACCTACAAA AGATGCACAA 110

(2) INFORMATION FOR SEQ ID NO: 1357:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1357:

TAATGGTGGG GTATATTAT ATTAGTACCG AATTTTAGGn GCCTCACTAT CATTTATCAA 60
 ATTATTTAAA GTGGATCCT ATCGCAATCA ATTGCGAGG GCAGAATAAT GGCATTAGTC 120
 GTTGAAGATA TCG 133

(2) INFORMATION FOR SEQ ID NO: 1358:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1358:

GTGTCGGTAA GTCCACTTTC TTAATCATT ATCGTCCAGA ACTTAATCTT GAGACAAATG 60
 ATATATCAAA ATCATTAAAT CGAGGAAAGC ATACTACAAG ACATGTCGAA CTATTGGAAC 120
 GTCAAAACGG TTATATTGCA GACACACCTG GATTCACTGC TTTAGATTTT GATCATATAG 180
 ATAAGATGA AATAAAAGAT TATTTTCTTG AATTAAATCG ATATGGTGAA CATGTAAGTT 240
 TAGGAATTGT AATCATATCA AAGAACCTAA TTGTAATGTT AAGCATCAAT TAGAGATAGG 300
 GAATATTGCG CAATTAGAT ACGACCATTA TTTACAATA TTTAATGAAA TTTCAAAATA 360

(2) INFORMATION FOR SEQ ID NO: 1359:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1359:

CTGTTTTAGT	CTTATTGATT	GCCTGACCAT	TAACTAAGTA	ATTGTGTTT	GAAGCGSTTA	60
ATTGAGCAAT	GATTGGAATG	TCGTATTCT	TTCTCGITCG	TGAAATGACA	TTTGTTAACT	120
CTTCTAGGTC	GTAATACGTT	TCGAAAAGTA	GCGCGTCAAC	GCCTTCTTCA	ATTAAGGTGT	180
CTATTGGAAT	TCAGTATGAT	AAAGAAATAGT	TTGTAAGCTG	ATATCCCCCT	GTTTGGATAC	240
CTCTAAACCC	CACCAACTGG	GGCCCAATAT	ATACGTAAC	TnTAATTGGC	nGGCTTTTTT	300
GCGATGCGAC	GGGGGGCTGG	AGSATGCTTA	ACCTTAACCT	CCAGACGGAA	CCGTTTAACC	360
TTTCCAAAAT	TGCACCATAG	GAATGGTGG	AT			392

(2) INFORMATION FOR SEQ ID NO: 1360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1360:

CCATGGTTAT	TTTCTTACA	TTTCATGTAT	ATATATTGT	TTATTATCTG	TCTCTACTAG	60
ACTGTAACTC	CCAACATATC	TGTTTTATAA	ACCAGAGAGC	AGTCATTCAA	TAAATAAACA	120
GATCTGAGGG	CCAAGTGGCA	TGTTGTCAAC	TTATGATATT			160

(2) INFORMATION FOR SEQ ID NO: 1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1361:

GTATCCTAAA	GATTTCAGTIA	ATCGGAGCGT	TGTATTGCAT	GAAGGTACAT	TGCGGAATGC	60
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ATATTATTTC ACGATnTTAT TTAGCGAC

148

(2) INFORMATION FOR SEQ ID NO: 1362:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 147 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1362:

AAAATTACTA TGAAGATTGC ATTAGGATGC GACCATATTG TTACAGATAC AAAAATGCGT 60
 GTATCTGAAT TTTTAAATC AAAAGGCAT GAAGTCATTG ACTGACACTT CACTCATnAG 120
 TGCGCAGCT GTACGTATCA GACTTAG 147

(2) INFORMATION FOR SEQ ID NO: 1363:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1363:

CTGGCAAAGA AGACAACAAC AAGCTGGTAA AGAAGCAACA ACAAGCCTGG TAAAGAGACA 60
 ACAACAAnCT GGCAAAGAAG ACGGCAACAA GCTGGTAAAG AAGCAACA 108

(2) INFORMATION FOR SEQ ID NO: 1364:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1364:

GACAATGTTG CTGTAATGGG GAAGGnAATG GGTGGTACC GCGAATTGAA TAATTTAAAA 60
 CCGTAATATA TAATCGTAAT TGTTAAGCCC TCATTTTAT AAATTTGGA CCTCTTGAA 120
 AAGTTACGTT TTCAAGAGT TTTATTTATC CTA 153

(2) INFORMATION FOR SEQ ID NO: 1365:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 184 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1365:

TAAGAGAATT ATATGCATTC CAAACGAAAC AACAGAAAA ACGGACCAA CTAACGTGCA 60
CAAGTACAAT CGCTGTACTA CTGCAAAAACA CGCAAAACGA ACACTTACGT ACACACAAAA 120
AGACCACCAT TCACGTCGGG ATTATTAAAA AGGTAGTCTC GTACATTAT TAACTACTT 180
ACGT 184

15

(2) INFORMATION FOR SEQ ID NO: 1366:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 452 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1366:

ACATTAGATG GGTCAATCAT GTTATACACG GTGATTTAGG GGAGTCAATC AAATATAAAA 60
GGCCGGTAAT TGATGTATTG GAGGAAAGAA TTCCAAATAC AATATTACTC GGTGCTATGT 120
CATTAATTAT TACTTATATT ATCTCATTTG CTTTAGGAAT AACGTCAGGT AGATATTCTT 180
ACAGTTTGAC GGATTATACT GTGCAAAATAT TTAATTATTT GATGTAGGCC ATTCCATCTT 240
TTATTGCGGG AGTATTTGCA ATTTnTATTT TTTCTTTGA ATTACAATGG TTCGCCGTTTC 300
AAGGTTCTGT TGATATTAAC CTAAAGAAG GTACTTTTGA ATATcATATG AGTAAAAATAT 360
ATCACACATT TTTACCTGCA TTCACTTTAG GTTTATTATC TACTGCTGGT TATAWTCAAT 420
ATTTACGTAA TgATATTATT GAAAATTCTA AA 452

40

(2) INFORMATION FOR SEQ ID NO: 1367:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 141 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1367:

TTGTGAGTAA TTGGACAATA TAAGTGTGG TCTTGGATGG CATATCCTTG GTACGACCTG 60
GGCAACTTGC TTCATAGCGC AGTTAGGAAC TGATCAATCA TTGGCGTTTT GATACCTAGC 120

55

(2) INFORMATION FOR SEQ ID NO: 1368:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 126 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1368:

TGGTGCAAAAT TAAACGGTT GCATATGCAC GTACGACGTA TTGCTAAATA CAATCAATTA 60
 TTACGTATCG AAGATGAATT ATTTGAAACG CTAAATATGA CGGTATCATA TCATTCTATN 120
 ACTTAG 126

(2) INFORMATION FOR SEQ ID NO: 1369:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 160 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1369:

TGnAAAGTTC ATCAGGGAGC CATTITTACA ACACAGGGCA CATACGGGTT GTGTTTAGGT 60
 GCAATTGCCC CAAGCGGACA AAGCATTATT TAAAGTTTCA AGTCTTCTCA CGATTTTATTA 120
 GTGCACAGGA TCCTGTTAAG AGGTATTTTG AAGACTTCCG 160

(2) INFORMATION FOR SEQ ID NO: 1370:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1370:

AGTAATTCTG CAAATGCCGC AGATAGCnGT ACTTTGAATT ATGAGGTTTA CAAATACAAAT 60
 ACCAATGACA CGTCAATTGC TAATGACTAT TTAAATAAAC CGGCAAAGTA CATTAAAGAAA 120
 AATGGTAAAT TGTATGTTCA AATAACTGTC AACCACAGTC ATTGGATTAC TGGAAATGAGT 180
 ATCGAAGGAC ATAAAGAAAA TATTATTAGT AAAAAACATG CCAAGATGA ACGCACTTCT 240
 GAAATTTGAAG TAAGTAAGTT GAACGGTAAA ATAGATGGAA AAATTGACGT TTATATCGAT 300

AATGGACCA_n CTGATGTAGC AGGTGCTAAT GCACCAGGTA

400

(2) INFORMATION FOR SEQ ID NO: 1371:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 345 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1371:

CATCAAGAAC ATGTGAGACC ACAATTGAA TCACTTGAAA AAATAAATAA AGACATTGTT 60
 GGATGGATAA AATTATCAGG AACATCATT AATTATCCAG TACTACAAGG TAAGACAAAT 120
 CAGGATTATT TAAATTTAGA TTTTGAGCGA GAACATCGAC GTAAAGGTAG TATTTTYATG 180
 GATTTTAGAA ATGAATTGAA GAATTTAAAT CATAATACTA TTTTATACGG GCACCATGTC 240
 GGTGATAATA CGATGTTTGA TGTGTTAGAA GATTATTTAA AGCAATCGTT TTATGAAAAA 300
 CACAAGATAA TTGA_nTTTGG CAATAAATAT GGTAAATCTCC ATTGC 345

(2) INFORMATION FOR SEQ ID NO: 1372:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1372:

TTGAAAAGCA GTTTGGATT ATGCTCAAAC CATGGACGAC GGTTAGGTTT ATGAATGTTA 60
 TTCCAAATAG GTTCATCTAT AAAA_nCTAGT GGAAAGTGA AAAA_nATAGT GGACCTTCGA 120
 TAATACGATG TATTTATCGT TAGAAGCAGT AATA 154

(2) INFORMATION FOR SEQ ID NO: 1373:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1373:

GAGCCTAATT ATTCAAGCCA AATCGCATAT GAAATTGATA AAGAAGTCA ACGAATCGTT 60

CTATACnAGA ACTATC

136

(2) INFORMATION FOR SEQ ID NO: 1374:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 358 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1374:

ATCTTTAACA ATTAAACCA TACTATCTTG AATCATCATC AAATTAAACG CATGTCGCTC 60
 AAGTTGTTTC ACTTTAAAGA CTTCATTATT AAGACCGACC TAGACTGCT TTTTAAAAAT 120
 AGGTACATTC GTAATCATACT CTATACTTTG ATTGTCTAAG TGTAATTGTG TTTGGTGATA 180
 TCGATTATAA TCTTGTGCAG TAAAGCTGT AATCATTACT GATTGTCTTG AAAATATCGC 240
 GCCTTCATTA CCAATGAAGT CTATTGGAAT aTCATCACTA GCCTGTTTTA ACTTGTAATA 300
 AGCAGATTC ThTCTAAAG AAGCTCTAAA TAATGTCGTT TCATATACTT TGAAGTCT 358

(2) INFORMATION FOR SEQ ID NO: 1375:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 122 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1375:

ATAATTGTGT CTAATTTCG TTAAGTATGT TTTTGTGTG nAAGTAAGCA TAIGTTATTG 60
 TCTTTTAAAT TGTGTAAAA GTGCTGTTT CATAGAATTA ATATCAGACA TCCTTATTAG 120
 TA 122

(2) INFORMATION FOR SEQ ID NO: 1376:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 467 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1376:

CATTTTCTTC GGGTTCTGTC TTTTATGCG TAGATTATT TCTTGTTCI TGGTTATTAC 60

CGATAATTAC GATGGTAATA AGAAGTTTTT TCAAATATAA CGCCTCCATG TTAATGAAAA 180
 GTAGTTGATA CGTGAAGCTA AATAATThAT TTCAATATTG CCATAATCAT TTTAAAAAAT 240
 5 AAATATTAGA AAAGTAGGCG ATATTAAATAT TTTCATTGT- TTTTGTGTAC TTCAATTAGT 300
 ATAACAAAAC TGTTATGTAT TTATAAATAT AATCATTAGT ATTTTATGCG CTGAAAAAGT 360
 TATRAATAAA GTGTAAGGAA TAAATATTT GTATGGAAAA GAGAGATAAT TATGAATAAA 420
 10 ACCAGTAAAG TTTGTGTAGC AGCAACATTA GCATTGGGCA CACTGAT 467
 (2) INFORMATION FOR SEQ ID NO: 1377:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 128 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1377:
 AGGTGTTAGA ATTATITTA AGTGTTATAC GTGTCTTCCA GAAATTGTAA TGGCATTATA 60
 25 TTTAThAAAG TGTGGCAGG TTATTTTCAG GTGTATTAGT TTAGGTATCA TTCGTAGTAT 120
 GCTTGGGA 128

(2) INFORMATION FOR SEQ ID NO: 1378:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1378:
 40 GGACGCTAGA GGATCCCGST CTGGAAAATA TCGTCCAGAA CTTAGAAAATA TGAAAATATT 60
 CCCAAGACCA ATCGATAATA TATTGCCAAT ATGGCGTGCT GTTGGTGGTC CACCTGCAAG 120
 TGCTATTAAA GCGGGAAGAA AAGGTGTGCC AATGATGATT ACAACCCCTG GTGGCCAGC 180
 45 AATGAACCTT AAAGGTTCTA TAKATGCTTA TCGTCAACG GCAACTGAAG CAGGTTTCGA 240
 TGCTTCGCCT AAGCTTTTAC CAGTAAGTAC AGCGAGTCTG TTTTATACAG CTGAAACAAC 300
 TCAGGATGCT ATGAGAGAAT TTTATCCACA TTTGAATACA GGGATGTCAT TTATTCGTGG 360
 50 ThGTGGTTA TCCGAAACAG CAAThGCTAA TTCGTCAGTT 400

(2) INFORMATION FOR SEQ ID NO: 1379:

55

(A) LENGTH: 108 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1379:

10 AACTACAACA ATTAAACGAC CAACCTTAAA AaAATACGCT CTTATGCAIT GGATTAGTCC 60
 TGATTATACA ATTAACTGA ACAAATACCC ATCATTTAAA AGACTTAG 108

(2) INFORMATION FOR SEQ ID NO: 1380:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1380:

25 AAGTGGGGGG AATCAGIATG TTACATTTAC ATATATTAAG TAITAGCGAT TATTTTATTT 60
 ATCGCTACAT ACTTAACCAT TTCAAAAATT CAAGGCGGnT CACCATTITC CAACCCGT 118

(2) INFORMATION FOR SEQ ID NO: 1381:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 114 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1381:

TCATGAAAAC ATTTATTTTA AAATTGATA TTGTTCAT AATATTGAA ATTAACCTnT 60
 40 GTGTATAGAT TTTCTTTATA TCCTGAGAGA CATGTACTAT AATGTTTGTG AATA 114

(2) INFORMATION FOR SEQ ID NO: 1382:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 165 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1382:

CGGTATTGAT CATATAATA GTGTTTAGAT GCTATAGTCG GnTGACTTAA GTAATTTAAA 60

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GTITTTCTTCT GCCTTGCTTA AAGATATATG ACAGGGTGCT GGCAT

165

(2) INFORMATION FOR SEQ ID NO: 1383:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1383:

TTTGGTGTGA TGGAGTATAT TTAGGTGTGG AAATCAAGAG GGAATCCAT TTTCAAACAT 60
 CCAATTAGAG TCGAATAAG AACTCGCTAT CGGTCCAATT AACTGATTCA G 111

(2) INFORMATION FOR SEQ ID NO: 1384:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 144 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1384:

CATTAAATA ACGTTGTGAC CATGTGCTTT ATGCTATGTG CTAGAAAATC CATGTTTTTA 60
 TCTAATTTCT TAATAAATTG ACATTAAGTT GGATTCTTGT CCnCTTCAG TTTCGACATT 120
 GGATGACTGA ACGCATGAAA TCAG 144

(2) INFORMATION FOR SEQ ID NO: 1385:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1385:

TCGTTGTGCA GCAACTGCAT TACGCTGTCT CATTAAATGTA AGCGCAATGG CCATTGGTT 60
 TTTCTATAGT GGAATACTTG TCAAAATTGA ACATTGTATC TTC 103

(2) INFORMATION FOR SEQ ID NO: 1386:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 533 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1386:

5 CCAGnACAAA TACAACGTTA TATTCAACAA TTAGAAGACT TAGnATAGAT ATAAATTGAG 60
 GGAGGACATC GATATGGCAT TTGAAGGGTT ATCAGAAACC TTGCAAGCGA CGATGCAAAA 120
 AATGCGTGGT AAGGTTAAAC TTACTGAAGC TGATATAAAG ATAATGATGC GTGAAGTAAG 180
 10 ATTAGCGTTA CTTGAGGCTG nACGTAACT TTAAGTGGT AAAAGAATTT ATTAAACACAG 240
 TATCAGAACG CGCATTAGGT TCCGATGTAA TGCAATCATT AACACCAGGG CAACAAGTTA 300
 TTAATAAGT TCAAGATGAA TTAACGCAGT TGATGGGTGG AGAAAAATAC TCGATTAAAn 360
 15 TGTCAATAAA ACCACCTACT GTTGTATGA TGGTGGTGT ACAAGGTGCT GGTAAAACAA 420
 CAATGTCAGG TAAATTAGCA TTATTGATGC GTAAAAATA CAACAAnAAA CCTATGThAG 480
 TTGCAGCAGA TATTATCGT CCAGCAGCGA TAAATCAATT ACAAACAGTA GGG 533

(2) INFORMATION FOR SEQ ID NO: 1387:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1387:

TTATTTACAA GCCATTAATA TATTTTAGGT TTGTTCTGCA TCGATTCATT GGTGCTATT 60
 TATTTACATT CAATAATGAG ACTTTACAn CAAACCAATT GGTCAATAT AG 112

(2) INFORMATION FOR SEQ ID NO: 1388:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1388:

ACACCTACAG TTAATAGTAT CAGTGCACAC TAAAGTCCTA ATACTTTCAA CCATGACTAA 60
 TGATGTATCh TCTTGCCCAA CGAACGCGTT GTGCCAAATT GAATTAGACT GGACGGAC 118

(2) INFORMATION FOR SEQ ID NO: 1389:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 147 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1389:

CGACGACACA ACTTTATAAT AAAATCTTAG ACAATAACGA AGGGTATTAA CAGAACTTGG 60
TGCTGTTAAT GCAAGTACTG GAAAATATAC TGGTCGTGCG TAAAGCAAAT TTTTGCTCTG 120
ACCTnCAATG GTACTTGTG GGGAAATA 147

(2) INFORMATION FOR SEQ ID NO: 1390:

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(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 161 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1390:

TTTTTGATCA TGATTTTGG GCATGGATCA ATCACTTGCT TGGCCAATGG TCTTCAACA 60
ATTGGATAT CTGACCTTAT TCGCTTTATC TAGCACTTTT GnCAATTGT TGGCATTGGA 120
AAACATGIGT TTATGTTTTT GTATGCCTCT CGCAGGCTTT T 161

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(2) INFORMATION FOR SEQ ID NO: 1391:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 102 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1391:

GCCGCAOCCG CGCGATTCTC GGCTTAATAA GAAAACAAAT AATTCCAAAT CATATATGnA 60
CATTTTGGCC TCCTTATTC TTGAAAAATGT GGAATTGGAA TT 102

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(2) INFORMATION FOR SEQ ID NO: 1392:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 412 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1392:

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AAAAATGCTAT TAACAACGTA TTAAATAATC AAGATTACCA TGGTATTAAA GATAAACCAT 120
 TCGCATTATT CGTAACITGGA TTTTTCGACA ATGTAACAGA TAATACTGTT GGTATTAAC 180
 5 TTAAGACAAA AGACGGITCA ATAGCAGTAT TTATGCGTCC AGATATTGGA GAAACATTTA 240
 GCGAGTTTAG AACATTCTTA GCGCTCTTGT TAATGTGTGT ATTATTTATC TCGATTTTAT 300
 TAGTTATCGC ATCAACCTAT TCAATCATTC GTCCAGTAAA AAAGTAAAG CTAGCGACCG 360
 10 AACGCTTAAT TGATGGTGAT TTTGAAACAC CTATCAAACA AACnCGCAA GA 412

(2) INFORMATION FOR SEQ ID NO: 1393:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 186 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1393:

AGCAanTGGA TTGCAATGAG TTTCTTATAT TTACAAGGTG GTAGATTGAT TGATGTTTTA 60
 25 ACTGCGATAT TAGCAGTAGT CTAGATACCT AGTCACTGAG ATTTIAGATC GAGTTACAG 120
 CACATTATCC GATCTGTCTA TATGGATATC CGTATGACTA CCTATCCAC GGACTGCACA 180
 TACTGG 186

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(2) INFORMATION FOR SEQ ID NO: 1394:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1394:

TCTTTAAAG AATCAGGAGC TTGGAAGAAG TATATCAGGA TCATTAAGTC AACAAATTAC 60
 GCGATATGAA AATTGAATA ACAATTTGha AAAGCATGCT TCCGATAATC AGCAAGCC 118

45

(2) INFORMATION FOR SEQ ID NO: 1395:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 175 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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5 GGTACCTCG GATGGATGAT TACTATTTTG GGCTGGGCGC CGGCTTnGT TATTAGTGGT 60
 GGCAATAGTG GCAAAGTGT CAAAAAAAT CCAATAGCTG GAAACCCGGG TATATTGGG 120
 5 TATTAAACGCC GGTGGCCGGG ATTTGGCCAA TCGCATTAAAT TTAATGGCCA TTGGG 175
 (2) INFORMATION FOR SEQ ID NO: 1396:
 10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 132 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1396:
 AGAAACTTAG ACGATTAGTA TCATATATTA GAACACnGCA CGAACTTGA AATCATGGCT 60
 20 GATATCGCAC CTGAAGAAG CAAAAATGCC GCACGACTTG GCTTTGATAT ATTTGGCACGA 120
 CTTACATGGC AT 132
 (2) INFORMATION FOR SEQ ID NO: 1397:
 25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1397:
 35 AGAGGTCCGG CTATCTATCA AATAAGTGG TCATTAAAG CGTACACTTC GGGTGCGTTG 60
 ATTTCTTACT TTAGGTGTAG GACAATTGTA TCGCATCTAT CTTTACnCTA CCTGCATTGT 120
 T 121
 40 (2) INFORMATION FOR SEQ ID NO: 1398:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 202 base pairs
 45 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1398:
 50 CGTTCGTATA ATCTCACTTG CATnTGAAT TGAACAACAT CCGTTCATTT TAAGACTGCT 60
 AAAnGTACAG CTGAAAACCA AGTAAGTCCG TTTCGTCTGG CTGTGAAATG GATCAAGGAG 120
 55

AAACACCTCA TCCAAAGTTC AG

202

(2) INFORMATION FOR SEQ ID NO: 1399:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 165 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1399:

CGTGGATCA CTGATGCATT CATAAATGGG TGAACnTAAT GTAATGTTAA ATCTATCACA 60
 GCGCGATAAC AGCAAGAATA TAGTGAACAC CATAAATTGA GCATATCAAT GCCATATTCA 120
 TGGATACACA TAGTTCACTT GGTGGTCGGT GAAAGCCTGT AGATG 165

(2) INFORMATION FOR SEQ ID NO: 1400:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 107 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1400:

ACACCTTTGT TTTTGCAAAG CTGTACCACA AAGTACTGGG TAGAATTCTA CGTTATATGA 60
 GnCTTGGCGT ATAGCTTCTT TTAATTCATA AACTGTAAAT TTCTTCG 107

(2) INFORMATION FOR SEQ ID NO: 1401:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1401:

TTTTGTCTAG nAACATCTGC TTCTAATAAT GATCGATCAG CAGCCATTGT GCTTAATCTT 60
 TCATCCACA TCACAATCTC AATAGAAGGA TAAGCTTCTA ATAATT 106

(2) INFORMATION FOR SEQ ID NO: 1402:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1402:

CAATGTAA CCTACACCGT TAACAGCACA CATGATACTA AATTGTTGGG GTGTCATATT 60
 ATACAATGTT GAGTAAATAA TGGCGATGCA GATGAATAAC TA 102

(2) INFORMATION FOR SEQ ID NO: 1403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1403:

TTTATTATT GTGCTACAAC TACTTAAAAA AATCAGTAGA TATAGCATT AATCATTTT 60
 CATCCCCYTG AATTTTAAAA ACTTTTTCAA AAGCAACACC TCTAAAAATA AATACAATAT 120
 ATTATAGCAA ATAGAAATTA TTATTTTGTT AAATTATGTT GTCATGTT 169

(2) INFORMATION FOR SEQ ID NO: 1404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1404:

TTAGTTGATA AGTAAATCCG AGTGACATG GGAATCACCC CAACCGACTC TATTCAGTC 60
 TGAATACGT GAACCCATAA nATCCTATGT CCAGATTAT ATTCT 106

(2) INFORMATION FOR SEQ ID NO: 1405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1405:

TATTTTTCGA GCAGAGATGT TCGGACAAG GTTACGCCA AATTGTCACT GCTACTGCGA 60
 TGTGTATTGC ATGCAAGTGC AGGnAATATA TTGAACATTT AAACGATCAG TTTAATTCGA 120

CTTTAATAAG CAATTGTAC TGACTGTCGA CATTGCGTCA TGGTCTGTT TTGTTAACT 240
 ATACTAThGG TGCGAAGTAG GCCTATGTTT AGAGGTCTAA CATGCCGTAG GTCTAATGGA 300
 5 TCAGGAACC 309

(2) INFORMATION FOR SEQ ID NO: 1406:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 144 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1406:

GTGGACCTGC AGTTAATICA ACGATTTCAG GATGGGCGCC AAGAACGAAA CGTGCCCGAT 60
 20 ACTTAGGATT CTGGAATCAT CACATAATCG TGTGCATGAG GTGTTTCACT TTGGGGTCTA 120
 ATGATTCTTC ATGGAAGTA TAGG 144

(2) INFORMATION FOR SEQ ID NO: 1407:

(i) SEQUENCE CHARACTERISTICS:
 25 (A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1407:

ACCTTTGCGT CCAGAATTAG CTACATGGTA AAGCTTCGTG TTAATATTT AGGGATATCT 60
 35 TCAACnCGTT TCACTTGTAT AATTGTTTT TGTAATTGGT GAAGTCATAG TATAG 115

(2) INFORMATION FOR SEQ ID NO: 1408:

(i) SEQUENCE CHARACTERISTICS:
 40 (A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1408:

ATGGGTATTG GCGCTGTAGT ATAGCTTCAT TATCTGATGC CATTAGTATA CGCACACTnT 60
 50 TTATTATATG GCGTGGTATT CATCCTTATC GGGATCAATT ATTGGGTAC ATTTT 115

(2) INFORMATION FOR SEQ ID NO: 1409:

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(A) LENGTH: 123 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1409:

10 AACCAGATG_a AAAGCAAATA TACATATATA ACTCTACATG GGGTCGTGGT TTGGATATTG 60
 TTCTAGATGC ATTCGGTATG CCAATGACAA AGCAATATAA AGATAAATTn CAAGAAGATA 120
 AAA 123

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(2) INFORMATION FOR SEQ ID NO: 1410:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 120 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1410:

25 CTnTTTATAT TGAGGATTTT GTATCATATA TGGATAATCA TTAAAGGTGT ATGCTCTTGT 60
 TATCAGATCG CTACGGGTAA AATCGCTTCT ATAGGGCATT TACATCGGGG CTTCTGCCGG 120

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(2) INFORMATION FOR SEQ ID NO: 1411:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 455 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1411:

40 TCTCGTATTG CGTTTAGAGA ACATGCGCAC AAAGGACAAA TTCCAGGTGT TAAAAATCA 60
 AGTTGGTAAA ATCAAATTTT GTACTTTAGC CCATTTACAA TATCAATAAA ACAATGTACA 120
 45 GTATATACGA ATGCTATAAA CTGAATGTTT TCTCATATA ATAAGGAAC ATTCCGGTTT 180
 TAAITTCAT TTAAAAATAA ITAGTTTTTA AAGGGCTAT TTAAAGTGAA AATATTGAT 240
 TACGAAGATA TTCAATTAT ACCTAATAAA TGCATAGTTG AAAGTAGGTC TGAATGTGAT 300
 50 ACAACTATCC AATTTGGTCC GAAAAATTC AAGCTACCTG TAGTCTCCTG GnatATGCAA 360
 ACAGTTATGA ATGAGAAATT AGCGAAATGG TTTGCTGAAA ATGATTACTT TTATAATCAT 420
 GCATCGTTTT GATGAAGAAG CAAGAATACC TnTTA 455

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- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1412:

ACAATGTCAA ATCACAATAG CTGTTGTAGG CATTGTGATTA CAATGAACATA AAGGCAAAAT 60
 TGGAGCAGTT ATCCATGAAT GATTAATAAC AACAAAGT ATGGGTCAA GTTTAGGG 118

(2) INFORMATION FOR SEQ ID NO: 1413:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 245 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1413:

TGTTGACGAT ATAGGAATTA GCAAGAAATA GGCTAAGATA GTTTCGCACA ACTTGGGGCC 60
 CAnCCACTTG CTGTGTTGTA GAATTAGGGG TCCATTCTC GTGTGGGGC CGGAACATAAT 120
 AGTATGAATA TATATATCTA ATATTTAAAC GGCAATATTT ATATGGTATA CATTTTTATA 180
 TTTAGTHTTT GTATAGACAT GCTAATTAGC ACTTCTAAA AAGGGTTGAA ATGATATACT 240
 GATGA 245

(2) INFORMATION FOR SEQ ID NO: 1414:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 252 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1414:

TTTTTGTTAT TCAAAATTTA GAGTGTGTTA TATGATAACG GTTTTTCAT AGCGACTTGA 60
 TCATTTTTCG AAATGATGAA AGATATGCAA GTTCAATCAA TCGGAACAAA AATACTATAT 120
 TATGGTAAGA AnTTCCCGAA GACTAGCGCA CTCACACACA AGTGCATCTC CGCGAACAAT 180
 GCGCACTTTT CACAACACA CAAACACAAG GCACAAGTGC ACGCATTAIT AGACAATGGT 240
 CTACCTACCA GA 252

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1415:

ATCTGCTGGA AGAGAAAAAA GACGCTCTTA AAACGGCTT TAGAAGGTCA AGATATAGAA	60
GnTATTAAAT CTA AAAAAGA AGGAAC TTGA AAAAGTGATT CCAGGAATTT TC	112

(2) INFORMATION FOR SEQ ID NO: 1416:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1416:

CTCAATTACA TTCAAGAAAA TGGGTGGAAT TACACAAGT TGGACTGAGA AGTATAGTTA	60
ATAGCGCAAA TGcNATAAGC CTTATATAAA AATGGGCACA ATTATTTCAT GTACCAACAA	120
GAAC	124

(2) INFORMATION FOR SEQ ID NO: 1417:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1417:

TTCAAGACCA CATACTGTAA CTCGTACGAG AATTTTTC AATGACGCG TCAATCTCAA	60
TATCATCATA TGGTATTCCG AGTAATACCC CTCGnCACCT TTTTtaggTA GCGTCAATAT	120
T	121

(2) INFORMATION FOR SEQ ID NO: 1418:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1418:

CTACGCCATC AAGAGGGTGT TAGTGCTATT AACTATTGCG GCGAGAGCAA TTAGTCGAAT 60
 5 GCAAAATTAGG ACAAGTTGAT GAGTAACTAC nGCCAATATC GGTAAGTTTC ATGGCGGTTC 120
 AGC 123

(2) INFORMATION FOR SEQ ID NO: 1419:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1419:

CTTATAATCC TTACnGCAAT TTCACCTTGT ACGGAATTAA ACAACGGAGG CATTIACCTTA 60
 20 CCCCTTTTAC TTAATACGTA CCAAACTTG GTGCTATTCA ACCATTGGG 109

(2) INFORMATION FOR SEQ ID NO: 1420:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1420:

GCTGThGTGC TGCCAAGATG CTGATTGAAA AGTATATATG ATTGCATCAG TAGAAGAGCG 60
 35 AGCAGAAAGA AGATATAAAG ATAATCAGTT AAGAGGTGTC GAATCAAATT TTGAAGATT 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 1421:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 128 base pairs
 (B) TYPE: nucleic acid
 45 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1421:

TGTTTTTACA GTCACATACA CTAGGCATCC TAGCATTATC TAAATTTAAT ACCATCGCAA 60
 50 CTTCGCGCTTT AATCTTCAAG GCCAATTAAA CCTCCTTCAT CTTTCTAACT GCTTAAATAT 120

(2) INFORMATION FOR SEQ ID NO: 1422:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 110 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1422:

GCCAAATCATT GTCAATGTTT AGGCATCAAA TTTATCGAAT GATTTTCATT TGCCATGATC 60
 AGTCAAGGCG GGGATTATT CAAAAATTAT GACGCCTAGT AAAAAATTTT 110

(2) INFORMATION FOR SEQ ID NO: 1423:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1423:

ATTACCTTGC ATGAATTTCC ATCTGTCAAA TGTGCGCCTT CACGAATTTG TTCGATAAAG 60
 ATACGTTGGT CACCGTGAAT AATTCACCA GCTGCATTTh TCCATGGACC A 111

(2) INFORMATION FOR SEQ ID NO: 1424:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1424:

TGTTGTGTGA TTGCGTATTC TCAGGTGAAT TCTTACATAT ATAGTACTTT TTGTTTCCGC 60
 TTGATTTGAC CITGCATATC TTTACATTC TTGAAAAAT GATCAAGCn CTAATTGAAA 120
 ACCGTATCAT ATACAACCT CTAATTTTTT TGACTAACAA AAAGAATTCTT TTGACGTATC 180
 AACTATATCA TCATGACTTC 200

(2) INFORMATION FOR SEQ ID NO: 1425:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 119 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1425:

TTTCTATAAT TTTAGACTAT TTCTACCATG TTGCTGAACA ATTTACTTAG ATAAAAATTA 60
 ThAAATTTTG GTCAATTAAAC AAGTTAGT TGTAAAACG TACTCTTAA TTATCCGG 119

(2) INFORMATION FOR SEQ ID NO: 1426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1426:

AAAAATGGCGT TGCATTTTAC TCTAATAACG CTCAGGCCA CGGCAAGAT AACTAAAGG 60
 CACCTATTAT CGAACATAGT ACTCTAnCG GACCTGGAAT TTAAATCAGA GCGGCC 116

(2) INFORMATION FOR SEQ ID NO: 1427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1427:

TTTTATTAC GTATAAGTGG GCGTTAGGTG TCACAGCGGT TGTGATCAA AATATCATCA 60
 TCAATCTGT ATATGGGTTT GCGATTCTT ATTTATGAT TTTACAGAAC TATCCTAGGC 120
 TTATTCTTTA TTAAAGATG CAACnAGTTA TATAAAAGA CGAATCTATC AACGCGAGCT 180
 GCTCACAAGG CATCTCnTAT AGCGTCCACA TC 212

(2) INFORMATION FOR SEQ ID NO: 1428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1428:

GAATAATTGG TTCTGAATAT AATGGTGCCG TACTCTTAC GCCTCAAATC AAAGATTTTA 60

ATTTTAATGA AAAACATCGG TCGAATATAA CATAAAAAAA CGTCTATATC AAAAGCATCA 180
 TGAATAAACA GAGGAGCACA AAAATGAnTA AAAATATAAT CATCAAAAGT ATTGCGGCAT 240
 5 TGACGnTTTT AACATCAATA ACTGG 265
 (2) INFORMATION FOR SEQ ID NO: 1429:
 10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 145 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1429:
 CGTACGAAGG ATTGCAAAC TTCTTCATTC AACAGCTAA AGAAGAACGT TTCCATGGAC 60
 20 AAAAGATTTA TAACTATATT AACGACAGAG GTGCACATGC AGAATTCAGA GCAGTTTCAG 120
 CACCAAAAAT TGACTTTTCA AGCAT 145
 (2) INFORMATION FOR SEQ ID NO: 1430:
 25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1430:
 35 ACACCGCTAA GCGTATTAAG ACAGGATCTG AAAATGGACA CATCGCAATC GAATTATTGC 60
 AATGCCAAGT CATATCGGGG GTGAACCGCA ATTTGAGGnA TTAAGTGGAT AGGTA 115
 (2) INFORMATION FOR SEQ ID NO: 1431:
 40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 211 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1431:
 50 NATGTATTng TGAAAAGGTC CTGAGTGGAC AAAAGACCTA AATATTTAAT GGTCGATTAT 60
 CGCAGCTCCA TAGTTGTTGA ACAGGAACCT ACACGTACAT CTAATGCCAG ACTATGCGTA 120
 AACTTTGGAA ACTGCTAGTC ATTGAAGCGT GGTATGTGTA TGCACGTAAA TATGCATTAG 180
 55

(2) INFORMATION FOR SEQ ID NO: 1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1432:

GGAATGATTG ATAAATGGA CTACTIONAAG ATTTCGGTAT CGTGTCATTT GGTCAGTCC 60
 ATGTTTAAATC ACCTATGnTG ACATGGTATG ATATTAGTGA CTACCAGAGA TATGGATGAT 120
 TTGGAACGTG GAGGACTTGA TCGTT 145

(2) INFORMATION FOR SEQ ID NO: 1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1433:

TTTATTGCAT TTACATAATA ATATCCTTTT GTTGTTTTGG TATTCTATT CATATACAAG 60
 ACCATACCTT TAACITTCAG AGCTTCCCCC TTATTTTGAG TTGCCATTTC AGAACCAATA 120
 ATCCATGTAC CTTTATCATT TTTATCAAAT TCGTCATCAC GATAACCTn 169

(2) INFORMATION FOR SEQ ID NO: 1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1434:

GATCTATAGT TCIGTAATCT GACGTGCTTT GCCATGTGCA CCACTCGTcn TAAAAATCAC 60
 TTACACTTAA CCCTTTTCCA CCTTATCGT ATCCACCTTC AA 102

(2) INFORMATION FOR SEQ ID NO: 1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1435:

5 TTCTTATTAT ACAAAATAGAA GCCATGTGTG CTTATATCGC AGCATCATGA CTCCTTTTTT 60
 ATTGGAATAT ATAAATAATA CAGnCGCTTT CGAATAAAAT TAGGCTAATT CTACCA 116

(2) INFORMATION FOR SEQ ID NO: 1436:

(i) SEQUENCE CHARACTERISTICS:

- 10 (A) LENGTH: 144 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1436:

15 GGGGGTTTAT GTACTGGTGG ATCTGCAAAAC TACTTGGCGT AAAGAATATA CAGATATGGT 60
 20 AAnGAAAAGT TTAGATTACAC ACGCCATCAC AATGGATTAG AAAAACCAGAA TTTCTTCAGC 120
 AATTCTACAA TTTCTAGTAT ACGC 144

(2) INFORMATION FOR SEQ ID NO: 1437:

(i) SEQUENCE CHARACTERISTICS:

- 25 (A) LENGTH: 101 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1437:

35 GTTGTCTGGG: AACCTATGGT CGAACATGTA TTGGTAAAGT GTGAAAGGCT CTGGTGGCGA 60
 TCAAGTTGGT AACCATCGTA GTACATGGTG CTGTAAATGT A 101

(2) INFORMATION FOR SEQ ID NO: 1438:

(i) SEQUENCE CHARACTERISTICS:

- 40 (A) LENGTH: 321 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1438:

50 AAAGATGGTG ACATTTTCATA TAATCCGAAT GTGCCAAGTT ATTCAGCAAA GTATCAATT A 60
 AGTAATGATG ACTACAATGT GAAGCAACTT AGAAGAGGTT ATGATATACC AACTanGAAA 120

AATTTAGAGT TTACATTTAT AGAAAAATAA GAAGAAAACA TCTATTTTAC GGATAGTATT 240
 AATTTCAAAC CTACTGAATA GGGTTAATAG AAGTTTGAAA TGAAAAITTC nTAAAGTGTG 300
 5 CAAAATAATT TGTCGCTTTA G 321

(2) INFORMATION FOR SEQ ID NO: 1439:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 135 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1439:

CAGTTGTAAT GGGACCTGGG CCAATCGGAT TACTGTAGC ACAAGTGTTA AAAAGTAAAG 60
 20 GCGCAACTGT TGTGGGTACT GGGTTGGGAC AATTGACCAA GTCAGATTAG ATTAAGGCCA 120
 GAAnGCCATT GCCAC 135

(2) INFORMATION FOR SEQ ID NO: 1440:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 110 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1440:

35 AAATTATTTT GAACACTTTA TGAAATTTT ATTTCAAACT TCTATTAACC CTATTGAGTA 60
 GGGTTGAAAT TAATACTATC AGAAAAATAC ACATTnCTT CTTTATTICT 110

(2) INFORMATION FOR SEQ ID NO: 1441:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1441:

50 TCTCTTTTGG ATTCATTAAG ATTGcncGAT CGATACCAAC GTTnAACGGT GATTGTGTAA 60
 TGAATTTTGG CCACCAAGCT TTTTAAACAT TATTCTTTAA TTCAACACCT AAAGGACCAT 120
 AATCCCATGT GTTTGATAAA CCACCGTAAA TATCACTACC AGGGAAACACA AAACCTCTGT 180

55

5 GAAAAACGCC CATGAAAAAT AACAGCATAG TAAATATGCT TTAATTCCAT GGGACGAGTT 300
 AATATTTTAA ATTGTATATA ATACAAAAA AGTACGTAT TTAACCGCG GTTCCACCA 360
 AATTAGTGA GTCACGCT TTTATTTTAA AATGATTCGT TGCGCCAATC TTATTGTTAA 420
 GCTTACACTA TCCTTA 436

10 (2) INFORMATION FOR SEQ ID NO: 1442:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 461 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1442:

20 ATTTTITAGAA GCATACTGCG AACGTCATCA CATCGATTTA CATATCAAAA AGTTAGATT 60
 GTCGCATAGT CTCGACCGAA ATACAGCAT TCAGAATGAA GCTCGAATTA AACGTTACGA 120
 25 ATGTTTGTAT GAAATGATGA ATGTATTAGA AGCGGATGTA TTGCTAACGG CGCATCATTT 180
 GGACGATCAA TTGAAACTA TTATGTATCG TATTTTANT GGGAAATCAA CACGTAATAA 240
 ACTAGGATTT GATGAGTTAT CGAAGCGAAA AGGTTATCAG ATTTATCGAC CACTTTTAGC 300
 30 TGTCCTAAA AAAGAAATAT AACCAATCCA AGAGAGATAT CATATTCAT ATTTGAAGA 360
 TGAATCAAT AAAGATAACA AATATGTTAG AAATGATATT CGTAATAGAA TTATCCAGC 420
 TATTGATGAA AATAATCAAC TTAAAGTATC GCATTATTA A 461

35 (2) INFORMATION FOR SEQ ID NO: 1443:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 143 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1443:

45 AAAGTGATA AAAAACAAG GCATTGTAAA TTACTTGAAA ACCAAGTGAG TTATTACAG 60
 ATTCTAATTG GGATAATGCG CGATATTTTA TTCCACACTT GTTACATTAT TGCTTTACGT 120
 50 GGGGTTTAGC GTGGATTCAT CAC 143

(2) INFORMATION FOR SEQ ID NO: 1444:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 90 base pairs

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

1743

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1444:

8 TGGTGTGGT TCATCAGTGT TAAACCGCAT TGTCACAAGA CTAGAAGTA TATGTACACA 60
10 GAAATGAGAC TATATATCAT CAAGCATATA 90

(2) INFORMATION FOR SEQ ID NO: 1445:

15 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 218 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1445:

22 ATTGAACAGT GACAACAAAT GACAACAATG AATGACCAAC TGAGTGCAG AATTGACCGA 60
25 CCTGACTTGC TGTnAGATGT GCATTGCCTG TGACCAAGTA ACTGCTGTTT GTACATTATG 120
ATTGTGCACG TGAAGTCTTT GCAAATGACT TTAAACATTA TGCTGCTAGA GCCATCTTTT 180
30 AAAGATGTTT GGACTAACGT nCATGATGTG AATATCTG 218

(2) INFORMATION FOR SEQ ID NO: 1446:

35 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 105 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1446:

42 TTGACTTGA CATTATAGAA CACAAATICA TTTGAAACTA TGTTTCAAA TTTATTTATT 60
GTTACTGGGA ATTTCACATT ATTAGATTTA TTTATTTTCT TTGTA 105

45 (2) INFORMATION FOR SEQ ID NO: 1447:

47 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 104 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
50 (D) TOPOLOGY: linear

55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1447:

AGACTGAAAA CTGCATATGC AGAGGCGATG AAACAAAATG CCAT 104

(2) INFORMATION FOR SEQ ID NO: 1448:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 104 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1448:

TTGAATTAACT TGAAGAAATC GCAGTGCAAG CAGGATTGTT GATATGACAA CATTGAGTC 60
 AGAATGGCAA CAACAACGTG ATTCGTGCAC TCCAAGCACG TGCA 104

(2) INFORMATION FOR SEQ ID NO: 1449:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 349 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1449:

TATTAAATTT TTTTAATATG GAATATTCAT TGCATCGCTT TCCTATTCIT CAAGCCCACT 60
 TTTTATCTTC ATATACATTA ATTAAACCACC KTCAAACATT GTCGTTAGAT TCGCCAAATT 120
 GAATCTATT TTAGCACAGC AAAAAACCGA ACTGCTGAAA TAATGCATCT CCAACAGTCC 180
 GGTCTATTAA ACTATTTACT TATCTTTATT AAACAATTGA CATGATTTAT TAGAATAACC 240
 CAATTGGCAT GACCATGCAT CAGTAACATC CATGTTTAAT GGCTGCTGGT TTTTATAGTA 300
 AACCAGGCCA GAGTCATGGn TGGCACCTGn GCAACGChAC GATAAAGCC 349

(2) INFORMATION FOR SEQ ID NO: 1450:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1450:

GATTTTATAT AAATATAGCT TTTCAACAAA ACAAATGATT GAATTTCTAG GAATTGAGTC 60
 ATTAACAAAA CACTTGAAAA ATTCAGGTGG GATTGCGCTA TTGCCGGAAT TTATTGTTGC 120

	AGAAACAACA TTGaTAATTA ATCCTGAATC GAATAAGCaa GTACTTGAAT CTTTGTGAAA	240
	AGATGTTTT TTATAATTAT TGGTGAAAAC GTGTAGTTAT GGTGAAACTC AAAGATAATA	300
5	ATTTAAATGA GATGTTAATG AAAAAGTAAT TCAATATAnA ACAGGTGATT TAnATCTTAA	360
	TAAGGnTAAT TCCAGGTTGA ATTCCAATTG CGGGCATCAT	400
10	(2) INFORMATION FOR SEQ ID NO: 1451:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1451:	
20	TGCGTTATAG TTGCTATICT CAATTATGTT CGCGATAATT TTAAGTAAAA GTAAGCACAG	60
	ATATTGAATT TGATAGGAGT TAATTGATAT ATACATACGA ACTTTCATCG ATCACTTAAa	120
	TThG	124
25	(2) INFORMATION FOR SEQ ID NO: 1452:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1452:	
35	TGTATTAaaaa ACCTTCCACC TTTAAAAGCA ACAATGCGGT GTCCTTTAAA TTCAAACATA	60
	ACCATATACG AATTACTCGA TAATTCTGTG TGTTTAATTG ACAGATGTCG TGtGAATTGA	120
40	TnATTT	126
	(2) INFORMATION FOR SEQ ID NO: 1453:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1453:	
	ACTTTGGCAa CATCTGGAAT ATCATATAAA TCAAGTAACT TACCTAACCG ATGATTAATA	60
55		

CTAACAGTGG TTTCATGCC TACACCTCAC GATATTATCA CTATTCATAT TAACATTATA 180
 TGTAGAAAT TAAATCTTT TGAAGCATTAG AGATTACTTA TCATTnTAA ATTTCATTT 240
 5 AAACTAACAG TAATTTATGT AGCTTTTgNa ATTCTCATAA 280

(2) INFORMATION FOR SEQ ID NO: 1454:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 242 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1454:

ATATTCTTTA AATTAACTG ATCACTTGAA TAATTAACAT TACTTAATTC TATGGCATTG 60
 20 ATGATGATTC CTCCTCATAA ATGAACGTTA AAATATCTG CAGTTCCTCA AGTGACATTT 120
 CGATGGCTTG CGCTTCATTA ACCAATCTT TAACCAAATT TTCAATGGTA AAAAAATTGTT 180
 TCTCTTTTAA AATAGGAAGT ATTCTTnGCT CCTTAACAAA GGnCCCTTTT CCTCTAATTG 240
 25 TT 242

(2) INFORMATION FOR SEQ ID NO: 1455:

(i) SEQUENCE CHARACTERISTICS:
 30 (A) LENGTH: 110 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1455:

ATAAAAATTGC AGACTIAGAT TACTCTTGTT CAGCATTTTT AATGTATATC GGTATAGATA 60
 40 TTGATGTGAC AGATCAAGTG AGACTTGCAATnTGGTATTT TATTCAGATG 110

(2) INFORMATION FOR SEQ ID NO: 1456:

(i) SEQUENCE CHARACTERISTICS:
 45 (A) LENGTH: 551 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1456:

ACCAAGTGGTT GCCTTTTTTAA GTCCCGCGTG GGACAAAAAT TAACCTCTTT ACACCTGCAA 60

55

AAAGCGCTTG CAATATATTT TCGATTGTt ATTCAACmAA ACGTTTTATT tTATTCGCTG 180
 TAGTCAAATG TATACCTTA TACTGACTCG aTAATCATTt GCTTATnATT TGAGACTAGG 240
 5 ACATAAAATcA ATGCTCTAGA ATCCAAAAAG TCACATTAGT AGTAGTTAAC CGAACGAAAA 300
 TGCACTTGTA ACAAGCTTTT TTCAATTAAA GTCAGGGGCC CCAACATAGA GAAATTCGAA 360
 10 ATGAAATCTC ACAGGCAATG CGAGTTGGGG TGGGACGACG AATAAATTT TGCAAAAAATA 420
 TCATTTCTGT CCCACCTCAC TCAAAATAAA TTTCACTATC CGTAAATAA ACAACTAACT 480
 ATTTAAGTAT CATCTCTCCC CTAATTAACA ATTATAAAAA TAAGAACCaa TATTCGAGAC 540
 15 AACCTAATTA A 551

(2) INFORMATION FOR SEQ ID NO: 1457:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25 . (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1457:

ATCnGGGGCT GCATAAGCGA TATCAAGTGT GAGCATTGAA CGATTGAGGA CTGACCAGCA 60
 30 CGCCGTTTGC CTGCTTTGAA AGATCCACCG ACAATCCGC CAACATCGT 109

(2) INFORMATION FOR SEQ ID NO: 1458:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1458:

ACCAGAGCCT CTTTGACTTC CTAAGTCGAA TAGCATCGTT GATATAGTTA AAGATGACGC 60
 45 TAGATTAGn AATCCAACT CATAACACCT CCACATTCC ATCACATCTG GA 112

(2) INFORMATION FOR SEQ ID NO: 1459:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 224 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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	CCCCAACCAA TTTTAAAAA AAGGGGGCCT TTGGGGGGGC CAACCAAGGG GGAACCCCTT	60
	AACCCCAATT TTGGCCAATT TTAAGGGGAA GGCCTTGGAA CCTTTTGGG AATGGGCGG	120
5	TTTTAAACC TTGTTTCCG GAAGGGGAAA ATTTTAAAAA AAACCGAAT TGGTTGGCCC	180
	CCTTTAAATT AAAAAGTCC CTAAAAANA AATCCCCCA AGGG	224
	(2) INFORMATION FOR SEQ ID NO: 1460:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 135 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1460:	
20	TTTCGACAA CAATTGACG TCAGTGCCAC TCCATCTATA GTAAAGCGTT GATACITTC	60
	ATAATAACTG GATCACTGTC TAATTATAAA TGGATTCTTA CATCCACCA TAATAAATTn	120
	CATATGTTCA TCACC	135
25	(2) INFORMATION FOR SEQ ID NO: 1461:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1461:	
35	TTATAGAACC TGTACTCCT nTCGACACTT GAATTAAAT CAGAGCCGCC AGTGAGAAG	60
	CATGAATTGA CTGTACCAC TCGAGAAAG TAATGATTCT AAGCCACTTG ATTA	114
40	(2) INFORMATION FOR SEQ ID NO: 1462:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 105 base pairs	
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1462:	
50	GTTGAATTGT TGGTGATGTG GTTACACGAA TTTGGAATAA TTGTCTTTA CGTCAAAAACG	60
	TATCGTTCCA AAGTAATCCC CnGGTAATAG TTACCAACAA GTTCA	105
55		

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 162 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1463:

TTGTATGACT CTTCGGACTT TGGTAAAATT GTGAACGCTG GnTGAATGAT TTTGTTTGA 60
 CAATTGGCCT TATCATCAIT AATCGTATTT TTAAGCTGCT CGGATATAAG TTCTCAGCGA 120
 GTTCITTTTG ATGTATCATT AGTGTAGAAA ATAGCTGTTT GT 162

(2) INFORMATION FOR SEQ ID NO: 1464:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1464:

TAAATTGGAA AGTCACATTC AAnATGCGAA AATGTTTTAA AATGTCCTGT AGGTGCTTAA 60
 TAGTTTTGCA TTTCGAAATT TTAAGTGAACC GGTTTAAACG AAT 103

(2) INFORMATION FOR SEQ ID NO: 1465:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1465:

AAATTGTATA ACTACCAAGC TTATATGAAA TGGTAAACAA AATATTATCA CTGTTTGAT 60
 AAGTAGCGTG GAAAATATTG TATCTTTCTA AATGTACACG TTAGAANTCA TGCTTATGTA 120
 TTACACGCGG GGCACGTGTA CCTAAGGCC TAT 153

(2) INFORMATION FOR SEQ ID NO: 1466:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1466:

TTTCAGTAAC ATATGAAAAC TTAATTAACG ATGTTTCAGTA GGTTCATACA TTTTACTTTA 60
 5 TGATGCTTAA TTGAATTACA nTTAAGATAT GACCAGCTAA AAAGAGTTAA TGTGATATTT 120
 AACC 124

(2) INFORMATION FOR SEQ ID NO: 1467:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 354 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1467:

AAGGAATTAA GTTTGCGACA CCAGCAAATA GTACTAATAA AGGAATATAT GGTAAGTCAA 60
 20 TAATTGAATA ACCGATATAT AAGAATATAC CTAAAAAATC ACTGACAGTT ACTTGACCTT 120
 GAATGTAAGA TTTTAATGTA AAGTTTAAAT CAGTTAATAA ATCTACGAAA AATACTTTAC 180
 25 GTTCACCTTT GAAAAATTTA GCAACAGCTG GGATAAATTT TTCATGCTCT TTTAACATAT 240
 AAATTAAGAA GAATGGAACC ATAATCAATA AGAAGATGGT TGAAATTAAT GATGTAATGT 300
 30 ACTGTAATGA ATTAGATAAn ATATTAGnAA CGCCATCACC CATTGATTTA ACCA 354

(2) INFORMATION FOR SEQ ID NO: 1468:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 120 base pairs
 35 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1468:

TGCAAACTAG GAACAATAAT GTTAATATAA CTATGATGnA AGTTAAAAAA TAAAAAGGAA 60
 45 CACTCTATAA TATGAATTAG GGTTCACAGT TTTTIGAGTA TTTTACAGTA TCAAAGTTTA 120

(2) INFORMATION FOR SEQ ID NO: 1469:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 476 base pairs
 50 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 55 (D) TOPOLOGY: linear

TCTAAATGCT GACTAAAAC AGCAACACGA GACTCATTAT TATTAGACAC GATTGTAATA 60
 GTGATTCCCTT TTTCATTAGC TTCTTTAAAC CATGCTTTAA CAGGTCTGT AGGTTCTTTA 120
 5 ACATCCCAAC CTACTAGCGT ATTATCTAAA TCTGTAATAA TACCTTTAAC GCCTTTGTC 180
 ACTAACTTGT CTAATCAAT TTGAAATATT GATTGAACAT ATGAATTCGG CATAAAAAAC 240
 TTGCGAACTA AACCCATTTA ACTCACCTTT ACCTTTTTAT AATTGAGACA CTAATGCTTC 300
 10 AACAGTTTGA CTGATGATA CAGTGCTTTT TTCTAAAAAT GCTTCGAAGC TCATTTCGGC 360
 TTCTCCATTG GCTAAGTCTG AAACGCACG AACTACAACA AATGGTACAT TAAATTGATA 420
 15 ACATGTTTGT GCAATTGCAG TTGCTTCCAT TTCAACGCC ATCGCATTTG GAAATG 476

(2) INFORMATION FOR SEQ ID NO: 1470:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 156 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1470:

CACCATACAT GGGTAAGGAT ACTACTCAA TCAACTTGAA ACCAATAATH CATGACCATA 60
 TGTGTGCCAA TGAATTCAAT TGGAAAGACA ATGATGAGAT ACTATTAATA CGATTATATT 120
 30 TATTGTCACT TGTCAAACG CACTCCTTTT CCAAAAT 156

(2) INFORMATION FOR SEQ ID NO: 1471:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1471:

AACAAAAGTT TTGAAAGCC GGGTGCCAGC GAAAACTTAA AAAGCACTTT ATCAGAAAAA 60
 45 GCTAAGAAAA AAGATTAATA TTCAATCATT AAATATAAAT CCAATTTAAT TTGTGTTTTA 120
 AGGCTACAAA GTGATGTTT AATATACAAT TCATCGTTTG ACGGTAAATC AGATACTTTG 180
 50 AAATCTTGTC GCTCAACCTC TAGTAAATCG AAATCGCTAC CAGCTGAATT ATAGGTTTTA 240
 AGTTCACCTT CITCAATGAT TCTGTTTTCA AAGTCTTTAA TAACATATAA TACTGGTTTA 300
 CCGTTGTAT TAAACAACCT GTCTCTTTTG TCTAATAAGC TTATACAATC CAAATTCATA 360

(2) INFORMATION FOR SEQ ID NO: 1472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1472:

CTAGGATTnC ATCTATTGG GATGAAAATA AGCGTTTCCT GAATCCACAA GAATATCCAG 60
 TCGATTTAAG CCAGGCATGT TGGGGTAATA ACATAACGTT TTTTGA 106

(2) INFORMATION FOR SEQ ID NO: 1473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1473:

TATCTTACCT ACATTGTTAT CTGATGGCTG TAATCATTAA ATCTATAACA CCGAGTTCCT 60
 CCATTAAITTT TCAGCTTCAT TCGACTGCCT TTTTATnTTT CGTACTATTA CGAATTT 117

(2) INFORMATION FOR SEQ ID NO: 1474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 164 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1474:

ATGCATGGCA CTGGAAnCAG CTGGGAGATA TAGGTAGTAT CCTAAAGAAG TTCAGTTAAT 60
 CGGAGCGATT GTATTGCATG AAGGTAACAT TCGCGAGTGC CAACAGGCCA AGTAAAACTT 120
 AACGGCAACC ATGCCCTTATA TTAATGCCCC TTCCGGGAAA GGAC 164

(2) INFORMATION FOR SEQ ID NO: 1475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1475:

ACAGCAAGAC GTGACAAATC AGATACTATT AGTCATCAGC GTTAACATGT GGATAnGTGT 60
 5 GAGGTACGAA TAnCCGAAAG GAAATACGAC CTTTAACATT CGCGCACAAA ATGAGCTCAG 120
 GCGCCTGCCT TGCCCATTTT TTAAATTATT TCCCTGGAAA TGATTGCTGT GTGTCTGTTT 180
 10 TGTCCACAAC AACACGATTA ATGCCATGAC 210

(2) INFORMATION FOR SEQ ID NO: 1476:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 128 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476:

AGGGTGATT CACGGTTCGT CTGCCATTT AATTGCGCAT TTGCGACACC ATCTACCGTT 60
 TGCAATTTTG GTATTAAATG TTGCATGCG TACTGTCCGT TGACTTTGnt GCAAGTGCAT 120
 25 GCTCTTTC 128

(2) INFORMATION FOR SEQ ID NO: 1477:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 641 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477:

AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA 60
 40 TGTGGAGGAC ACATTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTGTGTAC 120
 CAAACAATAC ATAATGGTTC ATAGTGAAT TCGAACTATC AATATAATT GGTTAATACG 180
 45 TTTAATAATG GTTCTCTGTC AAATTGGAGT TATGGGTTCA ATATCGATT TGGCACATAA 240
 ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCAGGCCAT AATCTTCATT 300
 AATTACAGCG TGATTCACTT ATTATTATGT TATAAATkCT ATCTATAAAC GTCACTTTAT 360
 50 TAAATAACTC ATGCACCTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC 420
 TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTGCGTT GCAAAGACTC 480
 AATTTCACTT GAAATAGTTA AAGTAGAACC TATAThAAGC ATTGTCTAG CTAATTTATA 540

GATAACTCIT ATCTTTTTCa ACTGTAGGTG ACCTTTAGGG C

641

(2) INFORMATION FOR SEQ ID NO: 1478:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1478:

TTAACCGTGA TGCAGAGTAG TAAGTGGATh CATGCTCTGT TATGGATGAC AAGACAAAGC 60
 AGCGAATATT GCGTACTGCG ATTGATGAGC AGATGCATAT GATTGGATTG GTGCAGCTGT 120
 C 121

(2) INFORMATION FOR SEQ ID NO: 1479:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1479:

ACCATGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC 60
 GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT 120
 CATAGCATTa TTh 133

(2) INFORMATION FOR SEQ ID NO: 1480:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 201 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1480:

TTTTGGGGnT TTTAAATTTT AAATTCcGn TGGGGGAAAT TCCCTTAAAA ATTCcCAAC 60
 CTTTTAAGGG GTGGGGGTTT TTTTAGGGAA AAAGGGGCCc GGGGTTAATG GTTCCCAAAA 120
 AATTGGGGAA AATGGCCCCC CAAATTTTAA ATTCCCGGTT TAAAAATTGG GGTGGGTTAA 180
 ATTGGAAAAA CCCCcAAATT T 201

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1481:

CAGTATCAAG CATAGTAAAA AATGAGGGTA GACTGAAAA TACGGCGTTA TTGGTGGTGC	60
ATTCAAGGTA AATATGTTGC ATGACCAGCA AGTTTGGnC TTCTGATGCA CC	112

(2) INFORMATION FOR SEQ ID NO: 1482:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 127 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1482:

CAAAAAACAA GTTCTGATAT GCAGTAGCTG AATAATTTTG CTAGTTACAC CAnAGTGATC	60
TTCTGGTGT TTACTTTTAA TAAATGTTTT CATATATTTC ATATGTATAA AAATGGGATT	120
TAGCGTA	127

(2) INFORMATION FOR SEQ ID NO: 1483:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 83 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1483:

AGTGGTGTAT TGGGTGAGTA ATGCTTAACT TCATACCTGG TGCATTGGCT GTTCAGTATC	60
ATTATATCTG CATGGGOGAT ACT	83

(2) INFORMATION FOR SEQ ID NO: 1484:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 201 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

TATTATTGAT GTTCTTTGGT TCATTCTTIG GTAATAATTT TGCATTGAA AATTACAAC 60
 CGTTAGCTGG AACCTAGnCA AAGGGATGGG TTTAGTGGTC TATTGTGGGT TTATTGGTAT 120
 5 TCGTGGGCC ACCCCATGGG GCCATTATGG TTTGGGAATT TTGGGAATAA ATTAATTTnC 180
 CCAACCAAAA ACCAGGCCAA G 201

(2) INFORMATION FOR SEQ ID NO: 1485:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 210 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1485:

20 CTCACAGCAA CATCAAGAG GCAGATATTA GTCAAGTCA ACGTAATAAC ATCTACCTTC 60
 ACAAGTCGAT AAAGGAGCAC CATCATTAAAT AAGTAGATCA ACAAGTCAAC GAGAATTTTA 120
 ATGTGCAGAA TAGAGAAGTA CACCACACAn ATAATCAAGC GATGTAATTA CTACTACATT 180
 25 TnCATGACA GAGTGAACCT CAACAGCGGT 210

(2) INFORMATION FOR SEQ ID NO: 1486:

30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 158 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1486:

CAGGTATGT TTGCATTAGA AGTTCTTGA AAATCTTTAT GGAACGTGGT TTACACCCTG 60
 40 ACTTTGAATT GCATCGATCT GATGAAGATA AATGAAATTG AATGGGATG CnACATGGA 120
 ATGCAACCTA TGACTTGGAT GGAATTAGAT GAAGCGGG 158

(2) INFORMATION FOR SEQ ID NO: 1487:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 114 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1487:

55

TTGCAGCATA TAGAGGTAGA GGCATCGCGA CAAAGTTATT AACGTCATTA CTTG 114
 (2) INFORMATION FOR SEQ ID NO: 1488:
 5 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 10
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1488:
 15 TGCTAAGTGA TAAAAGAAT GATAAGCCAG GTGTACCAAT GGGTCTGGA TTAGACCATT 60
 TGGAGATAT CGTTGTACCA CATGTTGATC AACTAACGTT nCCACATG 108
 (2) INFORMATION FOR SEQ ID NO: 1489:
 20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 25
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1489:
 30 CAACACGTAA TTTCATGATG AAAGTGGTCG ATAATTCTT GAAACATCGC TTTCAGTAAT 60
 AACGCCTGCT TTAAGGTCAC GTTCCGCATA GGTGACTGA GGATGTTGAT GT 112
 (2) INFORMATION FOR SEQ ID NO: 1490:
 35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 265 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 40
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1490:
 CAGAACGTTT AAAACAAAGT TGGAAAAGTT TTCTAATCGT ATTAGCTGCA TGTTTAATAC 60
 45 TTATTATTGC AAGTGAACG CTTAATTTC TTTAGTCATT TGACCGATGT TAAAGAGGTG 120
 AGATGGTTAT TTAGAATCAT TGTATTGATT GTTTTTCGG TAGTGATGTT CACATTTAT 180
 ATCTCTTATC ATCAATTATAT GAATGACTTT TTAGTTACTA AGTATTTTAA TATTTCCGCA 240
 50 GCGACGCCAT AGTTATTATG TCTAT 265
 (2) INFORMATION FOR SEQ ID NO: 1491:
 55

(A) LENGTH: 113 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

8

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1491:

10 CnAAATTGSC CAGGGGCTCA TCCAATATTA AAATAGGCGT ACGAGGGATT AATAGACCAC 60
 CTAATGAAAC GCGTTGGITG TTGGACCTCC AGATAAATCC TGGGGGTCGG TGG 113

(2) INFORMATION FOR SEQ ID NO: 1492:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1492:

25 ACTAAGAAAA TCCGAAATCT TTTCGGCTTC TTTTAAATAC GTAATACTTC CTTTTTTTCG 60
 CTCTAAATGT TTGGCATTCA ACTCATAACT ATTCATTAGT TTCGTTAAGC CTTCGTCATG 120
 ACTCTCATTG TGAGAAAAAA TTTCCAAATG GTACGAAGAT GTTTCAGGGT TATTCACATG 180
 30 GCCACCTGCC AGAAAAGCTC CTCTCAAGTA ACTGCGCTCT ATTTCTGTCAT CTTGAATCAT 240
 TGAATGATC AATTTCATGG CGnAAAAATG CCGTCT 276

(2) INFORMATION FOR SEQ ID NO: 1493:

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1494:

AAAAAAAAAAGG TTTTITACCC GGAATTCCTAA AntTTTAATC CCTTAAAAAA AATTCGGGCC 60
 5 AACCCCCCAA CCCAAGGTTT TTTCTTAAC CTGGAATTA ACCAAGGTTT TTTTCCAAA 120
 AAATTTTCCA AAAAAGGAAT TACCCAAACC CTAAAGGTT TTAATTTGG GGGGGGAAAA 180
 10 AGGCCCTTTT AGGGGGGAA 200

(2) INFORMATION FOR SEQ ID NO: 1495:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1495:

AAAAAATTG GTGCATTAT CATATGGAGT ATTAATCTGT AGAAGTAAAG GCGATATAAA 60
 TGTTACTTTG GTAATAAAGA TTACAGCGAA CGTTATTATT GCTCAGGTCA GATCAAGAAA 120
 25 TTGGTGTCCG GGTGACAAGA CTGGTGGCG CGGTGTAGTT TGTCAGTTGT GTGGTCATCT 180
 TAAATAACGC TATCGTACGG TGTGTATCAC ATGAAGGGAC TCTTACTAAT TCTGCAAGTA 240
 30 CACGTCACGC nnt 253

(2) INFORMATION FOR SEQ ID NO: 1496:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1496:

ACGCTAGCTT CTGAAAAAAT AAGTGAAC TAAGATGCAAT GAnCCTATTC CTGAATGATA 60
 45 TTAGACGTAG CGCACCTGGT GCAGAACGCC AATAAAAAA CAAG 104

(2) INFORMATION FOR SEQ ID NO: 1497:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

AGGGAGGCGC CCAAATGGCT CTATATTAA AAAGGACTCT CAGAGCATTA ATGAAAAGTT 60
 GAAGCTCAAA AGGAAGCGAA AGAAACAAGT ATCAAAACAT 100

5 (2) INFORMATION FOR SEQ ID NO: 1498:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 101 base pairs
 (B) TYPE: nucleic acid
 10 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1498:

TGGAACCTTG GGAAGTCAA ACGTTGTAA TCGTTGAACA TAAAGTTAAA CACATTCTGG 60
 ATCATGTGCA nCGCGTCCAT TTGATGGATA TAACGGGAAT A 101

20 (2) INFORMATION FOR SEQ ID NO: 1499:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 127 base pairs
 (B) TYPE: nucleic acid
 25 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1499:

AGTTCGGTG CATCGTTTT CATGTATTT GTGACGATTA TCATTCCAGC ATTAGAATAT 60
 TATGCATTAT ATTAGTGT GATAGGTGCA TTTATAGGTG GTTAACTGT TTATACACTT 120
 35 TCAGGTG 127

(2) INFORMATION FOR SEQ ID NO: 1500:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 560 base pairs
 40 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1500:

TCCCGCTTT AATACCTCC ACGATTCTT TAATTGCTTG CGGTGGTCA CTTGAGGCT 60
 50 CAAAATCAGA ATGTATTTA AAAGGATAAT GTTCAACCAT TGTACATAT GCCTCCTCTT 120
 TCAACGTATT ATTTATATTT CCGCTCAACT CTTTGCTTTC TCATACATA TnTTAGCAAA 180
 GTAGTCACAC AAAAaGCAAA CGTTkGTTTC TAAAAATGTC GAACAAaGAA AnACAAACAT 240

55

AAATACACAT TATATTAATC ATCATTTTGT TTCAACAAAT TTGTTTGAAA CATTATTTTA 360
 AAGTTAATCT TAGCGATCTT CATCTTGATG TTTATGAAAT TCGAGTTGAT CTATAATTAA 420
 5 ATAACCAGCT AATAATGACA CTACATCAAT AAAAATAATC CACTCGTTAT GGAAATACTC 480
 TTTATAGATT GAGGCACCAA TTAATAATTAA TGTGAGAATA GTACCGACCC ATTACTTCT 540
 10 TGTTATTACA CTAAATAATA 560

(2) INFORMATION FOR SEQ ID NO: 1501:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1501:

ATTAAATCAT ACThACAATT ACCGATGACA TTATTCCAAT TCAATCTAAT TCCGTGATGA 60
 AAGAGCCACG TTTTGGTTAC TTCGTGGGCG TGAATTATTA TG 102

(2) INFORMATION FOR SEQ ID NO: 1502:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1502:

TATGGTAGCT CCAATGGTT GTATCGTCAC ACCATCATCT TCAAGTGCAA TGCGATGTAA 60
 TCGATTGGCT GTTGTCTCTG TTACCCATAG TACTTTTCA TCTGTACTTA AAGCAATACC 120
 40 ATTTGCTACG CTAATATTTT GAATGATAGG CGTCACTGTT CTAAGTCCG GCGAAACATA 180
 ATAAACGCCT CCTAGTGGAT TGGTAGAGTA TCCTCTAAAA TCTGTAAAT AAAATCCACC 240
 45 TTAGAATCA AATACCATGT CATCAATACA ATATGCTGTT GAAAGATCTT CAATAATATC 300
 TTGTAAGTTG TCACCATTTT CTGTAGCTGC AAAAAAGCCT CChGGAGATT TAAAACTCC 360
 hAAAAATAACC AACGhATAAA TCGGGCAnCT TATGGAATTG 400

(2) INFORMATION FOR SEQ ID NO: 1503:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 168 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1503:

5 TACAGGTAGT TAACAGTTGA TGTAAATGG CGTACTGGAT TCTTTACGCA CGATTTTITG 60
 TTAATAAGTA TGGGATAGCA CATTACTATA TCCTACTTAC GACTTATTGG ATATGTCnTA 120
 GCTATTCTTA AGCTCGAAAA GTTTCACAGG ATACATAAGG GACCAACT 168

(2) INFORMATION FOR SEQ ID NO: 1504:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 237 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1504:

20 CTACTGATTG TGTAAATGTC TTGGTAGGCT TGGGCTGTAC GCAGTATTAG GTGAGGCA 60
 CTTGGCTTTT GGCATCTACC TTGTATGTGT CGTGTATCTA nGGCTGGGGC TTGTCCTTC 120
 25 AGTTGTTAGA CAGTAGGGGG TAATCTCAGG GGTGCAATGT ACTCCCTCCG TCCTAAAATA 180
 CnTATATATG TCCTGCCGAA TTCCTGCAGC CCGGGGGATC CACTAGTICT AGAGCGG 237

(2) INFORMATION FOR SEQ ID NO: 1505:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1505:

CGCATTTACC ACCATATGAT GGATCCAnCG ACGTTTTAAT AAAGATAAAA GTGACAGTAG 60
 40 CGGGAAAACA GgnCCATAAT TCACATCTCT TTTGAAAAAT ATGTTCAAGC TAGGATCATT 120
 AGGAGAGTCA TATTAATAAT AAAAAAGTTG CAATCAATCG ACGTGCCTTG AATCTTAAAT 180
 45 ACATAATAAA TGTGTAGTAA GATATGGGT 209

(2) INFORMATION FOR SEQ ID NO: 1506:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1506:

AAAATGTGGC TATTGATTTT GACTTGGAAAC TTTTGAACA TTCTCTCAA GGATTAAAT	60
GTAGGTAACA GGGCAGGTAC TACGGTACTT nCCTATTTT TTATGCAAT TTTAAAAAC	120
A	121

(2) INFORMATION FOR SEQ ID NO: 1507:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 144 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1507:

AATGACAAGG TCAGCATTAA AACCATTAA AATAAACGC GTTATGGTTA CTGGACGTAT	60
ACACCGTGT TTGTTAAAA ATTATTTAGA TAGACATAGC ACATTTAAGC CGAATGTAAG	120
GATATTATTA AAAGATGAT TTGT	144

(2) INFORMATION FOR SEQ ID NO: 1508:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1508:

CCGATTGAAT CTGTGTACAC TTCACCAAG ATATCTTTCT TCGTTCTTC AGATAAACTT	60
TCCATTGCTT TCTTATCAAC ACTTGTTTCT ACTAATAAGT GTGTAAATT GTGCTTnTTA	120
ACAACTCAA TAGCTTGTC	139

(2) INFORMATION FOR SEQ ID NO: 1509:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1509:

TCTGCCTGCC TCGCCTCCC AAAGTGCTGG CATTACAGGC ATGAGCCACC ATGCCTGGCT	60
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CAAGTTAAAA TACAGATGTA AGACTTGACT TGATC 155

(2) INFORMATION FOR SEQ ID NO: 1510:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 87 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1510:

ATCCCAATGC TAATGAAITTT GCATATACGA TAAATAATGC TTTTATCAT CAATAAGCT 60

ATGAATCTTT CAAGATCTTC ATTGAAC 87

(2) INFORMATION FOR SEQ ID NO: 1511:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 217 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1511:

ATAGGCGTIT ACCAGTTATT TTCGAATCCA TATAATTATG TTTGTCCGTT TGGTTTAATC 60

CAATTAAITG ATTAAGTTTT TCCAATTCCT TTTTTTTTAA TTAAAAATCC AATCCTTAAA 120

AAAAATGGGA AAAAAGCCTT AAAAAAAATT GGTTAATTTT CCCAAGGGAA TTAAAAATTT 180

TGGGGTTTTT TnAGnCCCT TTTGGGAAAA ACCCAAC 217

(2) INFORMATION FOR SEQ ID NO: 1512:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1512:

TGACATTGCA TCGGATTATG TTACATCAG GACAACGGGC CTCAAAAAGC GGTGCACAAA 60

CGTTCGTAA TCATATGCCA GTGCAATCGG ATGTAAGAG A 101

(2) INFORMATION FOR SEQ ID NO: 1513:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1513:

GATTTTATTG AAATGATTTT ACCTGTGATC AATTATTGTA ACAAATCTAC AATAAAATTG 60

10

TCCTACTGCA TGACCTAATA AnATAGCAAC AGATATCATA CACACTTGTA ATTT 114

(2) INFORMATION FOR SEQ ID NO: 1514:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 77 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1514:

ACATATACAG GTACGTGTTT AGTCCGTCGT ATACTGCAAA ATTATGTCCG ATGAAAATTAG 60

25

GGGAAAATTG TAGAACG 77

(2) INFORMATION FOR SEQ ID NO: 1515:

(i) SEQUENCE CHARACTERISTICS:

30

(A) LENGTH: 102 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1515:

CCTTATAAAG TTAATGCAAG CAACATGGAC AAATTATTAn TTGAATAAAG TGCAAGAAAG 60

40

ACAACAATCA TTCTTCGGAA TGCTAGGAGA ATATATTTTA GA 102

(2) INFORMATION FOR SEQ ID NO: 1516:

(i) SEQUENCE CHARACTERISTICS:

45

(A) LENGTH: 89 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1516:

CAATTTTAA TAGGATTTT AAGACCTTGG TTGGGTTTGTGTACAATTAA TGGGGACATG 60

55

ACTAGGTCTT GCCACGTTTA TATGCATCT 89

EP 0 786 519 A2

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1517:

GTAAAGATGC ATAGTTTTTA AATGTTGCTT GTCTGGTtTC ATTTTGGCAC CATACAGTTC 60
 GTACCTGGAT TAGGAAAATG CCAAATGTCC GCGTAGTGAT AT 102

(2) INFORMATION FOR SEQ ID NO: 1518:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 448 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1518:

GAGAACTCCT TACCACAATC AAAAGTAATT GATTTAAATA TATGAGAAGA TAAATGAAA 60
 AGGTGCAAGC AGTATTAAGA ATTTAGGTAG CAAGAAAACA AGAAGTGGTA CATACGATGC 120
 TAACCTAAAA AGAATTGGAG ATTAATAATGA TTATTAACCT TGAACACAA CAAATACATT 180
 TTGATTTAGA ACATGAAATT CCTATTTC AAGCACCTGA GAAAAATAG ATACGCTTAG 240
 ATATTGATGT TCTCAATAAA AAGCAATT CTAAATTAT TAATGTTATA TTTAATAAGC 300
 AATCAAAGAC GAAATGTACA TTTTGTCTG AATACTTATA TCCTGTAAA TTTAGAGAAA 360
 AAACAAGAAT TGGTCGTTT TTTAATATTA CTAACCTGTA CGAAGAAATC CATTCTACCG 420
 ATGAGAAGTA TGTnATTGCA ACTATTAA 448

(2) INFORMATION FOR SEQ ID NO: 1519:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 304 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1519:

ATGGACGAAA GAAGATGTCA TTGCTTTTGA AAACCTAACA AATATTAAAG TAAATTTAAA 60
 AGGTAGCGGT TTTGTGTCCT ACCAATCAAT TAGTAAGGA CAAAACTTA CTGAAAAAGA 120

ATTCAAATTC AGATGGTnAA GAAGAAATCT GACAGTTAAA ACTGACAGGG ATAAGTCGGG 240
 ACTnAACAGG AATGGGGTAC nTTTAAATTT AGGGATGGTA TTGGGCCACT ATTTGGTTTT 300
 5 TGAC 304

(2) INFORMATION FOR SEQ ID NO: 1520:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 322 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520:
 ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGA TCCTCTA GAGCGGCCGC CCTTTTTTTTT 60
 20 TTTTTTTTTT TTTCGTGTGG CCITTGATAA TTTTATTGGA TCAGTAACAA CTTTTTGTGT 120
 TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180
 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGAnAAATA CACAGCTTTG 240
 25 GTAGGGnAAT GGTCCCTGGAA ATAATGTAAT GCCAAGTnTC TGATCATTTA ACATATCACT 300
 CACCTCCTTC TTCATCTGAT GT 322

(2) INFORMATION FOR SEQ ID NO: 1521:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521:
 40 TAAATACAAA CCCTTTAAAC ATATTACTA AGTCGTTCAA TTGTTGATTT GATAAATGAT 60
 GTGATGTGGT ATTTTGATC GGTCCCTGCTT GATTCCAGAC ATGTC 105

(2) INFORMATION FOR SEQ ID NO: 1522:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1522:

GATCGTATT CCCAGATGTA AATTcNtGG ACAATTGGCG TCAATAGCT TCTAGTGG 118

(2) INFORMATION FOR SEQ ID NO: 1523:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 157 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1523:

CnGCATATAA TCCCGCGACA TGTCttttAC GGGTGCACtt GTAATATTAT TACCCCCCGT 60
 ATAACCCATG TATATCTATA CTTTACCACA TAAAAATAATT CGGGACTAT TTGGCACATG 120
 TTTTGGGTGA ATTTCttTAG TGGCACACCA CCCCTGG 157

(2) INFORMATION FOR SEQ ID NO: 1524:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 82 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1524:

ACTGAGGTAG GTTATGTAGG ACGAGATGTT GAAAGTATGG TTAGACATCT TGTTGATCCT 60
 TGAGTAAGAT TAGTCAAGGC CG 82

(2) INFORMATION FOR SEQ ID NO: 1525:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1525:

GATACAAAAA AGAAGtTCAA TTGAACTAT GAAGAAATTT ATATTTTAAA TCATATTTTA 60
 AGAAGTGAGT CTAACGnAAT CTCATCTAAA GAGATTGCTA AGTGCTCAGA GTTCAAACTT 120
 TACTATTTAA CTAAGGCTTT ACAAAAGCTA AAAGATTTAA AATTGTTATC AAAGAAAAGA 180
 AGTTTACAAG ACGAAAAGAC AGTTATTGTT TATGTTACAG ATACACAAAA AGCAAAATATT 240
 CAAAAACTGA TTTTCAGATT AGAAGAATAC ATTAAAAATT AAATCAAGGT TAATTGCGTT 300

AAAATTAAC TAAATTTAA ATATTGAAGA GCTTAATTAA

400

(2) INFORMATION FOR SEQ ID NO: 1526:

5

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1526:

15

ACTGTCTAAT ATTCAC TCCC TTAAGTGTT TTTCATATTT TTCTATTAAT GTTCATATTG

60

TAGGGTGTTG AATGCATCTA AGCATmCAA GTTATTC TCC AAGTTCATCA ATTCAAAT

120

GGAAC

125

20

(2) INFORMATION FOR SEQ ID NO: 1527:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 112 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1527:

30

CATGTTTATT TATGTTTCGG CTTAATGTT GAAGAGTTTT ACAAAAGTTTA CGATTGCAT

60

TTTATAATTT TAATGCATTA TTGGAGCATT GGCTATCATC TATTACTGCG nA

112

35

(2) INFORMATION FOR SEQ ID NO: 1528:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1528:

45

GCGAAGATGA GGATGAGATG ACTAAAGGAA AATATTGAAA AACCAACAAA AAACGTATGA

60

ACATTATTAA AAATTTACAA AATCAAATCG ACAACTTGAG CGCAAGAACH AACG

115

50

(2) INFORMATION FOR SEQ ID NO: 1529:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1529:

5 ATGGATCTTC CGCTTCTCTT AATTGATCAA TTAAATCAGA CATTTCATGT TTTTGAAAT 60
 AATGATTGCG TTTAATGGAT TTTTACATG ACATCATGAT TGCTACATCT TCACGTAATT 120
 10 TTTTGATATC TACTTTTTTC TCTTCCAAAA TTAGCTCAAT CATATCTTTA ATAATTCTTT 180
 CTACTTCATC TTTAGGGAAC CAAACTGGAT AGCTACTTAC AATATAATCA TGACCACCAA 240
 AATGTTCTAA CATGATACCT ACTGTGTGAA GCTCATTITT ATATTGATCA ATGACTAATT 300
 15 GTTCATCTTT TGA AAAATGA AATGTTAACG GGATTAAATA ATCTTGTAAT TCATTGGTAA 360
 CCTCACCTAT TThATCTCGA AAATATTCAT ATThTATnCT 400

(2) INFORMATION FOR SEQ ID NO: 1530:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 97 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1530:

TAACAGTCAA CCCACCCATT AATATATATT CAACGGCTGA CTGATACGAC GAACGTCAAA 60
 30 GAATATGAGA GGAATAGGGA CAAGATCATC ACACATA 97

(2) INFORMATION FOR SEQ ID NO: 1531:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 150 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1531:

TCATAACGGT GCAACTTAGA GCTGACGTAT AGTTCATTCC AACTATATAC GATGTATCAA 60
 45 CACCATGTTT CAGTTTTAGG TTAACGATAC TGTATACCGT ATTATGTGAG nGGCACCTTA 120
 TCTTCACGTA CTTTACGGCG AGATGATGAC 150

(2) INFORMATION FOR SEQ ID NO: 1532:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 138 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1532:

5 ATTTCATTCTG CTAACCCAGTA AGGCAACCCC GCCAGCCTAG CCGGGTCCTC AACGACAGGA 60
 GCACGATCAT GCGCACCCGT GGCCAGGACC CAACGCTGCC CGrCCTATCC TGAAGCCAAA 120
 10 GGAAATGAGA TCGGAATT 138

(2) INFORMATION FOR SEQ ID NO: 1532:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 460 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1533:

20 GGGgHcCnGG CAATGGAGGC GTGCTTGAT GGTGCTTGA ATCATCCCTT TGGCCTCGAT 60
 CATAAGCTTA AACTTTTGGT GCTGGnGCA CTGGAGGAA ATCTTCAATT CTGGCAAATG 120
 25 GTAATThCCT ATACCAACAT TTAAGGCATG TGGTAATGCT GGCTACTCCC GCTTCGTTAT 180
 CAGCTACATG ACAAATACAG ATGCCATCAC CTTTGCCTCC ATTTTAATCG TTGATGCTTG 240
 GAAATGTTTT TTGTAAATAT CAATGTTATC CTTGCTGTA TGTATCGCAT TTATATCTGG 300
 30 TAGCAAAAT GTTCCAACAG AAAGCCCTAT ACCTAGTTCG GCAGCTATTT TGGCAGATGT 360
 TGCCTACTA CTTAATAACC ACATTCTCG AAAATGATCA TGTGTGTGC ACTACGATCG 420
 35 ACTTGGTTAT CTTATTGTT AGATAATACG GAATACGnAA 460

(2) INFORMATION FOR SEQ ID NO: 1533:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 145 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1534:

45 TACGCTAATA AATAGTTCAC TTTTCCATT TTGTAGTCA GCTCAATTGTA TTCTTCAATT 60
 TGCTCTTCAT TTAATGCGC ATAAGCTTGA TCAATAATAT TTGGATTAAG TTGTCCAATA 120
 50 TACTCTAACT GGTCAATGATA AACn 145

(2) INFORMATION FOR SEQ ID NO: 1534:

55

(A) LENGTH: 151 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1535:

10 ACGCGATTTA ATCGTTCGTT CCAACGATGT CCACTCCCCT ACTAATAATT AAAATCATT 60
 CAAATTATTT CAAACTTTAC AATTAAACT AACAGTTTTC TCAATAAAAT GCAAGCTTTT 120
 CTCATTGTAT ATTAGAATG ATTATGATTT A 151

15

(2) INFORMATION FOR SEQ ID NO: 1536:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1536:

25 ATAAATAGAAT CATTACAAAT TATTTAGAC TTTACAATTA AGACTAACAG TTTTCTCAAT 60
 AAAATGCAAG CTTTTCAT TGTAA 86

30

(2) INFORMATION FOR SEQ ID NO: 1537:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1537:

40 ACCGAACTGT AAAGCCATAT ACTGAACATA TTGATAGCAT ACTCAATGAG ATCAAATTAC 60
 ATCGTGAATT TATTATAGAA GTACCTTATA TGAATCAAG GAAATTTGAG CTACTGATTG 120
 45 CTAACATTGA ACACTTTCT GTGGAATGTC ATTTTAAGCG AACAAAGCGA AAGTTATTAA 180
 TAGAAAAGCT TAAAGTGTT CAATATGATT TACAAAATAT ATTAGATGGC GTAACACnAG 240
 AGGGTACTGA TGGTTAAAC AGTTTATGTA ACAGGTACA AATCATTCGA ATTAAACATT 300
 50 TTTAAGATG ACGCACCTGA AGTACATTAT TTAACAACAT TTATAAACA TAAATTGAA 360
 CACTGTnGG ATGAAGGATT AGAATGGnG TTAATACAAG 400

55

(2) INFORMATION FOR SEQ ID NO: 1538:

- (A) LENGTH: 136 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1538:

10 ATATCGTTAC TGCTGTATGT TTCAATATCT ATATTCATAA ATTTCAAATh CTGACACCTC 60
 AATTTCTTTA AAATAAGGGG CAGAAGCCAC TATGACTATA GGATCTCTCA CAGGTCAATT 120
 CGCAAATCAC TCGTGC 136

15 (2) INFORMATION FOR SEQ ID NO: 1539:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

20

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1539:

TAAATATCTC GGCACAATGA TCGGGATAT TTTTTACAA TAGGCATAAA GGCTGGAAAA 60
 AACATATCTA GTGCTATGAT ACTTA 85

30 (2) INFORMATION FOR SEQ ID NO: 1540:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 73 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1540:

40 ACAATTGTGT TATTTCAACA AATTATCTTT ATTCCAGAT GTGCACAAGT GGTGAAATC 60
 AGCTGAAGAC ACG 73

45 (2) INFORMATION FOR SEQ ID NO: 1541:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 106 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1541:

55

TGCAGGAATT CGATATCAAG CTTATCGATA CCGTCGACCT CGAGGn 106

(2) INFORMATION FOR SEQ ID NO: 1542:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 87 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1542:

ACATCAACTC ACCATAATA TATATTACG GCTGACTGAT ACGACGAACG TCAAAGAATA 60

TGAGAGGAAT AGGACAAGA TCATCAC 87

(2) INFORMATION FOR SEQ ID NO: 1543:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1543:

GCTTATTCTG AAAAATATTT AAATTGAAGA AAAGAATATT CTAACACGG AAGTGGTATT 60

AACTAATAAC TAGTATCCTT TATAAATAAA CATAAAAAA TTCAAACGAA GGTCTACTAA 120

ATAACTATCC ATAAAGTGAG TATAAGTTTG TTGTAAAAAC TGAAGTAAAA AGCATAAGGA 180

ATTACACTTT AAATACATAT AGTACTTACG AATAGAAAAA AATCCCTTCA ACAGTAATTT 240

TTAACAAAA ATAAGTGTTG TTTTATGTTG ACTCTACTAG AATAACTTGA TATTATATAA 300

AAGTGTCAA ACGGCACTAA TATTAnnAA ACAAAATGTTT TAAGTTGTTG GATTnnAAAA 360

TATTGAATTA AAGTGAAAT TTGGACTATT GGAAATGCG 400

(2) INFORMATION FOR SEQ ID NO: 1544:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1544:

ATAACGCTAA TCAGCCACAT TCAGTATTGT TAAATGACA CACAAGCAGT TGATGAAAAA 60

(2) INFORMATION FOR SEQ ID NO: 1545:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1545:

GGCTGTTATT GTGTGGAGT TAAAAATGAA GGAAAATTAT AAACATGGTA AGCGTGTTTC 60
 TCGTATTACT TTACTTAAAC nAACGGTATA ACCATACCTA ACTTAGTA 108

(2) INFORMATION FOR SEQ ID NO: 1546:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 554 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1546:

AAATATGTTT CATATATTAT GAATCTAGCC TTAATCATAT TGCATCAAA ATAATTTTAA 60
 AAAATGAAAA GAAAGGATTT AGCATGCAA AATTCAAAGA CTTTTTTTAC GATGATTTAT 120
 CGGTTACACG AGGAAATTAT TTTTAACTT TAATGGCAGC ATTTTTTTAT ACTATCATT 180
 TATTATCGG CATAGTTGTC AGTGAAGTAC ATTTACTTTA TAGCATGCTA ATTGTATTAG 240
 TAGGTTTAAT TCTATTGAGG CTATTCAAAA TCAATTTTAT CTCTTTTAAA AAATTACAT 300
 TGCTCAAGT TATTATATT ATAGGCGGTG CACTATTAAAT TTATGGGTGA GATAATCTTT 360
 ATTTATATTT TCATGACGTA CCGGCAATGA ACAACAATTA GAGCAAGCAA TACGGAAATA 420
 CACCATTTCTA TATTCTTATT TtCACTGTaC CATCATCCCC GCTATTGTGG aAGAAaTTGT 480
 TTTtCGCGGT ATGATAATAA GGGkTATCTT CAGAAAACAC TTGTTTTTIAG GGTTAATTGT 540
 GTCTAGTTTA GTTT 554

(2) INFORMATION FOR SEQ ID NO: 1547:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

	TAAAGCAACA CTTTAAATCC CTTTGAACCT TAGTTTATCC GCTAAATCAT AAGCTTCITT	60
	TTTGCTACTT ACAAAAATCA ATCCTTGTA AATTTCACCT GAATATCCAT AGTAATCTGT	120
5	CTTTTGAATA ATATAATTA CTCTTTCATC AGAAGTTAAA TATCTCAGTT TAGTTACATC	180
	ATCTTCTTTA ATACCTTGAT GTACATAATC AGTCACACCA AAATAATGAA ATGGGACATA	240
10	AAATATCACT TTCTAATGCT GCTTGTAACC TTATTTTATA TGCAATATTA TAATCAAACA	300
	GTTCAAATAT ACTTAATTCA TCTGGATCTT TCTGGTGGTA GGCAGGTCAT TCCCAGCAG	360
	AACTTAGGGT TTGGAGGTAG GTTAAAATAC TCGGTTGGAT	400
15	(2) INFORMATION FOR SEQ ID NO: 1548:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1548:	
25	CGCTCTAGAA CTAGTGGATC CCCCAGGCTG CAGGAATTCG GCACAGCATA TCTAGTATTT	60
	TAGGACGGAG GGA	73
30	(2) INFORMATION FOR SEQ ID NO: 1549:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1549:	
40	GTATCCAAGC AGCTTTTAAA CAATATGGCA TAAACATTAT TAACGGCTAT GGTTTAACTG	60
	ATGGCACCTC TTG	73
45	(2) INFORMATION FOR SEQ ID NO: 1550:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 120 base pairs	
	(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1550:	

GTAAACGTGA TAGTGAAGTG ACTACTAAGA AGnCGTATTG TGATATTGAT AGCAGCTGAT 120

(2) INFORMATION FOR SEQ ID NO: 1551:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 192 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1551:

GGTATGTATT AATTAAATG TGGTCATGAT TGAACAGCA ATGTAAAAAT AGCACAACT 60
 AATTnATAAA GGAGAGAAAC GGCATGCATG AACAGATT TTAGAAATTTA GAGGGTCAAG 120
 ATATTACTTT GCCAGAATTA GGTAGAGAAT TAGAAnATAT TACAGGACAT ACGATTGCTG 180
 ATTCTACTGG CG 192

(2) INFORMATION FOR SEQ ID NO: 1552:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1552:

CTAAGTTAGA TGCTAGTATA CAAGATTAC AACAAAAGGT ACTGGAATCG AATTGTGAAC 60
 TAGACAACT AAATC 76

(2) INFORMATION FOR SEQ ID NO: 1553:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 135 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1553:

TGTGTGGGG CCCCCTATAT TGAAAAATTTG TTATAGTGT ATTTCITGG TTAACATTG 60
 TTATATAACT TGAGTTTTA GGATGTTGAT TTGCTTACC TTGCTGCTA TGTAATGTCA 120
 CATCAACATG ATnA 135

(2) INFORMATION FOR SEQ ID NO: 1554:

AATGCAGCTA TTACTTTTCA CAGATTCAT ATCGTTCAAC ATTTAAATAG AGAACTTAAT 60
 AAGTATCGTG TACAAGTTAT GAATGanTAC CGTAATAAAA AAGGACCTGA TTATACAATT 120
 TTC 123

(2) INFORMATION FOR SEQ ID NO: 3232:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1656 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3232:

GCCTCAAAGA ACATGCTGAA CAGTCATCGC attCATATAG TTTGAAGTCT CGTTTAAAC 60
 CATATCTATC ATTACGGTAT GCATATCTTT TAAACCTAT TCTTTTGTTA TTAGGACATA 120
 TAAATTCATC ATTAAGTTCG TCATATTTC AATTTTGAGT GTCGAAATG TCACTTTTAA 180
 ACTTTCTAGT TTTATCTTTA ATAAACATGC CATACGTAAT AAGTGGCGTT TTATTAATAAT 240
 CATCTATAAT GGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT ACAATAAACC 300
 GAAGLATTTT GAATCAITGT TAAAAATGGA ATTAAAGTTC TAGTATCTGT CGGGTTTGA 360
 AATAGGTCAT AGGATAAAAC AAATTGAGAA TTTGTCGCTA TTTGTAAATTT GTATCCTGGC 420
 TTAAGTTGGC CATTTTTTCAT ATGGTCTTCC TTCATTCTCA TAAAAGTTGC ATCATGATCA 480
 GTTTTAGAAA AACTATTTCCT ATCTTTAAGA ATCGATTTTT GTTCTTCATA TTTATTTTTT 540
 CTTTCGGAAT AATCATCAAA TTTTMTTTTG AACTTCTTAA TCTTAGTTCT TTTTtACGGG 600
 TCTGTTTTCT AATTGAGTA CTATCTTCGT TCTCAATAGA ATGATTTAAA yCTTCGATTT 660
 CTTTATCTAA ATGACTACCA ATTAATCTA TTTCTTCTAT TGTTAAATCG CTATCTCCAT 720
 CTTCTTTTAT CTCTGGTATT ATTTTTTCTT CAACTAAGTC ACGATATAAT GTTTTGAAT 780
 TTTGTTCAA TTTGATTG TGATTITGAA TACTTTTCTT CCACACAAAT GTATACCTAT 840
 TGGCATTAGC TTCTACTTTT GTACCATCAA TAAGATTTTG CTTTAAACAT TGAATATGAA 900
 ACTGGATAAA TAAAGATTCA ATTAACGCAT CAGTATTAGG ATTCACCTA ATACGATTAA 960
 TAGTTTATA AGAAGGTGTT TGATTTTGAG CTAACCAT CATTCGAAAT CTGTCATGAA 1020
 GTAATTCTC TATTCTACGA CCAGAAAATA CAGATTGAGT ATATGCATAT AAGGTGATTT 1080
 TTAACATCAT TTTTGATGTA TAGGATGTTG CGCCACGATG ATGTCTGAAT TTATCGAATT 1140
 CGCTATCAGG TATCGTTTCA ACAATTTCAT TAACATATCG CGAAATATCA ATTTGAGGAA 1200

GGCACTTCAT TAATTTAGTT TAGTGGTATT TATTAAATTA TACGAAGGGA CCCAACACAG 1320
 AAAATTCAAA TTATTGAATT AAACATTAT GTGCAAGTTT GGCAAAGTGT CTTATTTTTT 1380
 5 AAAAGTATGT AAAAGTAAAA TTACATGTTA ATACGTAGTA TTAATGGCGA GACTCCTGAG 1440
 GGAGCAGTGC CAGTCGAAGc CGAGGCTGAG ACGGCACCCT AGGAAAGCGA TCCATTCAAT 1500
 ACGAaGTATT GTATAAATAG AGAACAGCAG TAAGATATTT TCTAATTGAA AATTATCTTA 1560
 10 CTGCTGTTTT TTTAGGATT TATGTCCAG CCTGTTTTT GTGATTTTA ATAATTGAA 1620
 TATGGrAAAT GTATTaTCT CTCATTGTGA TAGATT 1656

15 (2) INFORMATION FOR SEQ ID NO: 3233:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 20 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3233:
 25 TTGCTCATAA ATCTTTTCTT GCGCGCTGA ACACTATCTT CTATCTGTC GGAATTTTTT 60
 AAACATAGTC TTATCATTTn CTCTAAATCG CGTTAAACGC CAATCTTGTT CATGTCGTTT 120
 30 GGTAAATCCA 130

(2) INFORMATION FOR SEQ ID NO: 3234:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 122 base pairs
 (B) TYPE: nucleic acid
 35 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3234:
 40 GCCACGATAA AGAAGTAAGA ACAACACATG GTGTTACTGG TACAGGCTCA TGTTCTTGGG 60
 AAAGTTATTT GTGnAAAATG GTGTGAATTA CTGGGGAAA AATCAACAAA CTGACTATCC 120
 45 AA 122

(2) INFORMATION FOR SEQ ID NO: 3235:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 173 base pairs
 (B) TYPE: nucleic acid
 50 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3235:

5 AACCAGGATA TGAAATCTGT GACTTATTGC GTTAGATCGT TTTGTAAC TG CTACTATTGA 60
 AGAAGCAGAC CAATATAAAG GTACCATTCA TTGCAAAAGC ATTACATGCA TGAACCCAGT 120
 TGACATTAG TTAGAGATGG AAGATAGTAT TGTGCATTG CAGnTCCAC ATG 173

10 (2) INFORMATION FOR SEQ ID NO: 3236:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 122 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3236:

20 GCGGTGTGCA TTGAAAATG TTATCAAGAA TATTGAGTTA ATTGCAACG ACATTATACC 60
 AGCGATTAnA AAGCATTAT CAAAATACGA GGGCGTCAT CATGAATATT GTATTATTGT 120
 CA 122

25 (2) INFORMATION FOR SEQ ID NO: 3237:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 182 base pairs
 30 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3237:

TTTTTTGCCC AAAATTTTIG GGTTTTTTTT GGGTTAAAGG AAAAAAATT TTAAAGGGG 60
 GGGGGGGTCC CCCAAAAT TTTTTCCT TCCCTTGGT TTGGTTTTT GGGGGGGGG 120
 40 CCCCCCCT TTGAAAACC CCTTAAAAA ATTTAAnGGT TAAATTGGAA AAAAAATT 180
 AA 182

(2) INFORMATION FOR SEQ ID NO: 3238:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 50 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3238:

55

GATGAhGITC GACAAOGTAT TGTGGCAGAT GTTGCAGTTG ACTTTGAAGA A

111

(2) INFORMATION FOR SEQ ID NO: 3239:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 120 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3239:

AGTTGATCGT ATTTTCCAGA AGAGACAGAA TTAATTGATT ATCGTGTTAG TTCTGTCACT
 GAAGGTACTG ATGCCCAAGC AGnAGTACAT GTAAGTTTAT TGATTGAGGT AAGACTGTCA

60

120

(2) INFORMATION FOR SEQ ID NO: 3240:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 127 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3240:

TACACATCTn TCTACGATTG TAGTTTATCG ATAGGTTTCG CATCATGAAA CGTGATAAAC
 AACCAACATG ATGCTAGTTT GATTAAAGTTT CTTCTAAACA GACTTCAAAC GGCAGTGTTT
 AGCATAT

60

120

127

(2) INFORMATION FOR SEQ ID NO: 3241:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3241:

GACTAAAATA CATGTTGGAA TACTTGGTCC CATGGGAAAA TATTGGACTG GGTAACCCAA
 TCACGGCTTC TGAAGTAGTT CTTTnTCTTC TATTAATAA GCGACGGAAT CACACCTTCT
 GCGG

60

120

124

(2) INFORMATION FOR SEQ ID NO: 3242:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 122 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3242:

TACGTGTATA CACCGTTATC TTTATGGCTT TGAATTTCCA TAATAAATAC ATACGGnTTT 60
TGTGCAGAGC TCAGCACATA ATCATCTTTA ACTATAGTTT CTGGGAATCA CTTCATAGTT 120
TT 122

(2) INFORMATION FOR SEQ ID NO: 3243:

15

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 221 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3243:

AACCTTTTCT GCAACCATAC GCCATAGyTA TGtTTTCTTT TTACAATTAA AGaGCCAACC 60
GTTGTTATAG TCTAACAAATG GTTGGCTCCT CTTtTTTAT GTGCTAAAAA TTTATAGGCA 120
ATTTTATTAC AACAAATGTAC ATTAAAGTG ACCTTCATGC CAAAATCGCA TCACTCATTT 180
AATGGAAGCA GCACGTCTTC ATACAAAGTC ACGATCCTAA T 221

(2) INFORMATION FOR SEQ ID NO: 3244:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 224 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3244:

TTGCATTTTG ATTGTCTGGT GACCTGGCA ATGACAATTC CCGCTTGCAA TCGGTATCTT 60
CAATATTATA ATCAGGTCTT GCCTTAGATT TCGCTAAGT ACCGGTGATT CTCTACCATC 120
ATACTCACCT CATGnGCTAT TTTTCTAGAG TGCTTCITTT CACACTTTAT CTTATAAAAG 180
GCTAGCTACT ATTACCGATT TATCATTATT AGTGGTTTTT Accn 224

50

(2) INFORMATION FOR SEQ ID NO: 3245:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 117 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3245:

5 GAAAGAGATT AGTGACAAGT TGGTTGTACT ATTACGTTAA AATTGGAGA TTATGTGTGG 60
 TGTTCAGTA TGCCTTCaT AATTGATATT GCGCACCGT ATAACCATGT CAAAGTA 117

(2) INFORMATION FOR SEQ ID NO: 3246:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3246:

CTACAGGCTT TGTACCACA GGATCAAAAC TACGCACTGT GCCTTGATACA TACGCATGAT 60
 20 CAGCAATGAC ATTCCAAGTA TTACCACATG ATATTTGnCC AATTGTTACT ACGCTTC 117

(2) INFORMATION FOR SEQ ID NO: 3247:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3247:

TACACaCTT TCTACGTGTG TAGTTTATCG ATAGGTTTCG CATCATGAAA AGTGATAAAC 60
 35 AGCCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCATGT 117

(2) INFORMATION FOR SEQ ID NO: 3248:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 135 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3248:

CCCGTCCTTT GGTGGAACCG TTTTGTAGAA TTAATAATA TTACAGAGCC GCTAGCAGTA 60
 50 ACGATCCAAA CGAATTACC ACCATCACGT GGATTAGGAT CGAGTGCAC TCGCGGTTG 120
 CnTTGGTCC TGCCA 135

55

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3249:

AAAGCCAAC CCATGnAATG TTGGATTGGC TTTTACATG CCATCTGAAT CTCTAATTTT 60
 AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT 106

(2) INFORMATION FOR SEQ ID NO: 3250:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 122 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250:

AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAn 60
 TCTAGTATTC CAAGTTGAAA AAACTTTAA CTGTATTAG GCGAAAAATAT CGGTGAAGAA 120
 GA 122

(2) INFORMATION FOR SEQ ID NO: 3251:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 132 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251:

GAACGTTGAG ATGTCACAAA CTGGTGAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC 60
 CAAATTCATC AATCACAATT ACTCCGAAAG CnGGTACAGG TCACTCAGTA AGTAGTAATC 120
 CCAGTACATT AA 132

(2) INFORMATION FOR SEQ ID NO: 3252:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3252:

GGAAAACTCT CAAATTCTGC AAATTGCCAA TTTACCTAAT AACCAACAT CTAAGGCATG 60
 5 TGTAAATGCTG CTACnCCGC TTCGTCATCA GCTACAATGA CAAATACAGG TGCCA 115

(2) INFORMATION FOR SEQ ID NO: 3253:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 140 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3253:

TTTCGTCAAA TTATGGGAAT AAAATAATCA TATTTAAGAT AGTAAATATT GAATAAGTTG 60
 20 CTTTGAAATT TATAAAATGA AAGTATAGTG TCATGGGnAG TATAATAGTC AGATATATAT 120
 GTAACGGCAC TATATTGAAA 140

(2) INFORMATION FOR SEQ ID NO: 3254:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3254:

AAATCTCCTA CTTTTCTAC CCATAAATAA TTGGCTAACT TTTTCATCTT ATCTTCATCC 60
 35 TTCTCTCTCT ATTTAAAATG CTACAAATAA ATTTCCGCGA GTAATTTTAA TGTTTTACAA 120
 CGCTGTCAA TACCTGGAAT AAGCGGTGCT ACTAACACCT CATCAACTTC AAcGTAGCA 180
 40 ATGAAATCAT CTAATTGTGC TTAAACCTwT TCTTGTGTAC CTGcAATGAT GCGTGCITGg 240
 ATGTGCTTGA ATCATCTCTT TGCTCGATC ATTAAGCTTA TACTTTTGTG CTGTGTCTAC 300
 TGAAGGAAAA TCTTCAAAT CTGCAAATGT AATTACcNA ATAACCAAAC ATCTAAGGCA 360
 45 GTTGTAAAGG GcNACTCCG CTTCGTTATC AGCnACAAG 399

(2) INFORMATION FOR SEQ ID NO: 3255:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 116 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3255:

ACCATTCGTC AAAATATTCC AACACGATT TAGGTGTGCA AGGTATCGGT ACCTAACAAC 60
 GAAGCTATCG TCTCACTAnC CTTAAAGAT TTAGAACAA CAGCTGCACT CATCAT 116

(2) INFORMATION FOR SEQ ID NO: 3256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3256:

AAAGACCTAA GGTATGTAA TTGGCCTAAA TTTATTAATC GTTTAAATTC AGTTAGTAAA 60
 AAGTCTGTGA GTAAGGGTGT ATGGAAACTG GTTAAATATT ATAGAG 106

(2) INFORMATION FOR SEQ ID NO: 3257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3257:

AACGTCCATC GTAATACCTT TTGIGTCTAA TGTAACCTGT ACATCGTCTA ATAATAAGTT 60
 GACGATATCT TGACAATGCA TCTTTATCTA GATGTAAGAn TTCAACGGAT GCCG 114

(2) INFORMATION FOR SEQ ID NO: 3258:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3258:

TTAAAGCAGT TAATCCACAG GGAAAGTGGT TAATACAGTT GGGCTCTGGT GGATAGTACA 60
 GTTGCAAGCA TGGTGGGCTG GGAATTGCTT CAGGGTTTAA CGAnTGGGAA AAGCCTT 117

(2) INFORMATION FOR SEQ ID NO: 3259:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3259:

GGACCGCCAT ATCGTTGGCA ATCATCGCAC CTATAATCAT CGCAAGTATA ATAATATTAG	60
CACCTTGCAT ACTTTTAAAC CAGGTTGTTA ATGCCTCAAA AATATTAGAA ATTGGTGGCC	120
GnTT	124

(2) INFORMATION FOR SEQ ID NO: 3260:

15

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 130 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3260:

TACCAATGTA TATCCATATA CTTTATCAT AATCATTTCA GCCGACTTTA GTTTGATGTT	60
TTTGCTTGAT TAAATCTTT CGGCGATCTT CAGCITGATG TTTTCGTTTG ATTAAATTGG	120
TACAATAnAT	130

30

(2) INFORMATION FOR SEQ ID NO: 3261:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 400 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3261:

GGCCTTTTGG GCGCGGGGTT GGAATITGGG GTTGCCTTAA TTTTAAATT AAATTTTGA	60
ATTAAAAAAG GAAAAAnTCC AAAGGTTAAT TTTAAAAAA GCCCAAGGTT TTTAAAAATTC	120
CCCCAACCAA AAAGGGGGGG AAAAAAGGTT GGGGGTTTAA AAAATTAnCC AAGGTTTGTG	180
GGGCCCTCCC TTGGGGGTTG GGAATTAAG GTTAACCAAG GTTTTGGGCC AAGGGGCCCA	240
ATTGGGGGTT GGGGCCCTGG GGGAAAAATT TTGCCCTTTC CCAAGGGGTT TTTTAAAAACC	300
CGGATTTTGG GAAAAAAnAA AGCCCATTTT CCCCCAACCC CnAAAGCCCA GTTCCCGCCC	360
ATTTTCCCGG GGTAAACCTG CCCCCACGG GGCCATTTT	400

50

(2) INFORMATION FOR SEQ ID NO: 3262:

(A) LENGTH: 134 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3262:

10 TGGITCAATG GAAACGTGTA CCGCAAATnC CGTTAAATGT TGTGGATGT TGAGAGACGT 60
 GGCTGAACCTG GCACATTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT 120
 GCGACGGCTG ATGG 134

15

(2) INFORMATION FOR SEQ ID NO: 3263:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263:

25 TTTTITCTG ITGGTACTTG TTTGTGGTT GCGATTGTG GTGTGTCTGA nTTAGTAGAT 60
 TGCATTGGTT GTGCGTGTG TGCTTGATGG AGGTGTTGTC ACTTT 105

30

(2) INFORMATION FOR SEQ ID NO: 3264:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 107 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264:

40 GTTCCATCAT TCCACChAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG 60
 CCTCATCATC ATCAGAGCGC CAGTAAATGC GTATAATTAA ATTAATT 107

45

(2) INFORMATION FOR SEQ ID NO: 3265:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3265:

55

GTCGTAACAA TGGTTCGTTA CCAAAGCATA nTTGCGCTTC TTGGCATCG 109

(2) INFORMATION FOR SEQ ID NO: 3266:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 104 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3266:

TTACCTTTAA AATAANGTTC TCCACTAGTT GGGCTAAACA AATTACATAT TTTGCTTTTG 60
 GAAATGTACT TTTTACCACT ACCTGATGGA CCTATAATGG GCAA 104

(2) INFORMATION FOR SEQ ID NO: 3267:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3267:

TAAGCCATCA GAAACAAATG CATATAACGn AACACACAT GCAATGGTT CAAGTATCAT 60
 ACGTGCTCG TCCGACATAC AAGAAGCCAA GCGAGAACGA ATGCATACAA TGTAACA 117

(2) INFORMATION FOR SEQ ID NO: 3268:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 101 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3268:

GCTGCACAAG CACAACCTGG AATCAGCAAC ACCGGCAAAC CAnCAGGTCA AGGAATAACC 60
 AAGCAGCACC TCATAATAAT GCAACACCG CAATCAAACA C 101

(2) INFORMATION FOR SEQ ID NO: 3269:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 207 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3269:

CATACCCCTAT TTTAGATATT ACCTTATTAC AAAATATTTT TACATTAATG TCAGCTGCAG	60
5 GTTAGTATTG TTTTCAAAA TTTACCGGTC ATCTTTGCCA ATTGGGTGTC GCCAATCGGG	120
ATTATCCTA GGAAGCCGAT TAAAGGGTA CTGCCAGGGT TTTAGCCTGC nGTCGCTCG	180
GGGTTTCTT TAAATTAATG nAACCGC	207

(2) INFORMATION FOR SEQ ID NO: 3270:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3270:

ATATTGCAC CACCATAAAC ATAGATGGTG TTTTGTCTT CTGCATTAC AGTGATAAAA	60
GGGCTTGGnC CCGTTTITGC TTAGCTGTT TTGAATAATA TATGATG	107

(2) INFORMATION FOR SEQ ID NO: 3271:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3271:

TTGGTTACAC TTCTGCTAGT TTTAGTAACG ATGGTCCAAG ATTGTATGAG CCTATTGATG	60
GATCAGCACC AGATATTGCA GGTAAAAACG TTGCCAATCC ATTGGGATG GTTCTnATGC	120
TT	122

(2) INFORMATION FOR SEQ ID NO: 3272:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 360 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3272:

GAAGGATGAT GATTTCGGAGC AnCTTCTTGC AGAAGAnGCG GnAATAACGT GACATATTGT	60
--	----

TGCAGCGCT TGACAATCTA TTCITTTTAA AGAAAGCGGT TGTAGACAA TGCATTAAGA 180
 GAAATTAAAG CGGmGTTTAC TTTGTAAAT GAGCATTGA TTTTtGAAA ATAAAGCAGT 240
 5 ATGCAGGCGC TTGACTAAAA AGAAATTGTA CATTGACAAC TAGATAAGTA AAGTGAAAAT 300
 ATAGATTTTA CCCAAGCAAA ACCGAGTGAA TAAAGAGTTT TAAATAAGCT TGGATTGATA 360

(2) INFORMATION FOR SEQ ID NO: 3273:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3273:

20 TCAATTTTAA CTGCAATATA TAAAGCTGCA TGATTACTT TGTACATTAT TGTAATTTCA 60
 GTAATACGAG GCAATGTCAG TnGCAGTGTT TAATAAATTT TGTTGCTAT TT 112

(2) INFORMATION FOR SEQ ID NO: 3274:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 336 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3274:

35 TACATTATG CAATCAACGT TACATTCAT CGTTGGAGAA AATTGGCTTT ATTGACTTAC 60
 TAAAATCTAA AAAATCATAT GAAAGAATTG CACATATGTT AAAAACtGGT AAGCCATTAC 120
 GTAATTAAAA GATAGTCATT AAGAGAGGAT GATAACCATG CAAGAAAGCA TACATTGTAG 180
 40 CTTATGGCGC TTCAGCGCAG CGAAAGCAAA GCAAGGCGCA TTATTCCACG AAAAGACCTG 240
 nTGATGTCG AGCCAAAGTA ATTACAAGG CTTATTGAAA ACGTATTGAC GGGAnAAATT 300
 CCAATAAGGA TTATGGATTG nAGATGGTC CATTG 336

(2) INFORMATION FOR SEQ ID NO: 3275:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 138 base pairs
 (B) TYPE: nucleic acid
 50 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

CAAATGCTTT TGCCACCCCA GATGCAATGG TACCAACACC TGTTTCGAA ACTAATTITA 60
 CCGGCGATAT CTGGCATCTT TTATTTCCGGC ATTTTTCAA ATCATGGTAA TTCCAGTTTG 120
 5 GCGGCTTAAA AATTChTT 138

(2) INFORMATION FOR SEQ ID NO: 3276:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 101 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3276:

CATTATACGA GATAAGTAA AATTGATGAT GTGACTAAAA AAGATGCACA ACAATTATTG 60
 20 AAGATGCCAA AGAATTGCAT GCCAAGCTGA TACATTAGAT A 101

(2) INFORMATION FOR SEQ ID NO: 3277:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3277:

TGGTTATTCG TTCTGATCG TTGTTGGTAT CTCACTATTC AAATTATTATC GTGIGGCATT 60
 35 ACTTTAGTAA CACCAGGTAC ATTTGAACCT GGCACCTGTT GCGAGTATTT CCGGTCTCGT 120
 CATT 124

(2) INFORMATION FOR SEQ ID NO: 3278:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 110 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278:

GACTTTTGA CCAATTGTAG CACGACCACC GAGAGTAGCA TTGCATATGC AATCATTGTA 60
 50 CCTTCGCCAA CGACTGnGCC AATATTAATT GTTGCGCCCA TCATAACGAC 110

(2) INFORMATION FOR SEQ ID NO: 3279:

55

(A) LENGTH: 113 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3279:

10 TTGGTATATA GAGGGCAACC GCACCTGATA AAATGTGnCA CAGTTTTTAC AAGAGGTAA 60
 GGAATGAGIT TGGAGGCATA CGAGCATCAA GATACCAITC GATGTTAGTA ATT 113

(2) INFORMATION FOR SEQ ID NO: 3280:

15

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3280:

25 TTACCGTCAC CGTAATCAGT CCATACTTTA TCAGCTATAC CGGCTTTAAC AGCATAAAATG 60
 TTCGTTCTCG TAGGCATACC AAAGnCGATA CCATAGTGAC G 101

(2) INFORMATION FOR SEQ ID NO: 3281:

30

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3281:

40 ACTATGTTTG AnAAATTGCA CAGAATCAGA AGCACAGTCT GAGAACGCAA GAAAAAATTT 60
 ATGACAAGTT AGATAGAAAT TTCGACGAAC TAAGGGCGTG ACCAAGAAGA AGATGA 116

(2) INFORMATION FOR SEQ ID NO: 3282:

45

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3282:

55 ACTTGGTTAG ATAATATAGC GTGATTGTA TCACGAGTGT CTGTTCCAGT CATTATAAAA 60

CGTCGTTCTG ATGCTTTTCC TGAATCAT

148

(2) INFORMATION FOR SEQ ID NO: 3283:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 100 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3283:

AAATGACGAT AGAGTCAGGT ATTAACATCAT TTThCAATAG TATCAGGAAG ACTACCAAGC

60

TTATGTTGAA GGGCATCTTT TGGCGTTACC GGGTTGGGCA

100

(2) INFORMATION FOR SEQ ID NO: 3284:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 101 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3284:

TTAAGAAACC GAGCAGCGCA TAAncCTGCA GTACCTTATC GCTTCTAGAT AATCCGATTG

60

CGACACCATTT GCAAGATGAC CGGTAATTTT GGAACATATA C

101

(2) INFORMATION FOR SEQ ID NO: 3285:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 106 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3285:

TAAATATATT CGCATCCCTA CACGCTAAAA TAATACATTA CACTTAAAC GGCTGTTTTA

60

AAGCATCCTC CCATAACAT CATCTAGTTG ATAATAGGGG GGGGGn

106

(2) INFORMATION FOR SEQ ID NO: 3286:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 95 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3286:

TTTAAACAATA CCTCAGAACA TACTATGGAA ATTGCTGCAA AGTTAATTGG GCATGCATAT 60
 TGATCATAAT GCGCTTTTAA ATAAAAATGGT GGAGA 95

(2) INFORMATION FOR SEQ ID NO: 3287:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 141 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287:

TCGAAATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT 60
 AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGChAG AACCCATTTT TTGAATATTT 120
 CACCACTCGA ATCATCAATA C 141

(2) INFORMATION FOR SEQ ID NO: 3288:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 107 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288:

TAGCTGACC AGAACACGGT TCGACGTGTC AGGAAGTCTT GAACAGTCGC TGAACGCCAA 60
 GCGGATACCT GGGTATATCCA TGGTGAAAGn AATGGATTGG TGGTGCA 107

(2) INFORMATION FOR SEQ ID NO: 3289:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289:

GCTTTGCAAT GCGCATGTTA CTGCAATAA TCATGTCGCA TCAATTACTT ATGGAAGCA 60
 GATTTACGTA TGCTACAAG TTTAGGCGC 89

(2) INFORMATION FOR SEQ ID NO: 3290:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3290:

10 TGTTACGCCA ACACAAAATC CTACGTCGAC AACTATTTTT AAGCGATGAT TGCAATTAGA 60
 CAGAAATCCA ATCATTTTTG CATTCCATCC AGTGCACAGA ATnTCGAG 108

(2) INFORMATION FOR SEQ ID NO: 3291:

15

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 109 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3291:

25 GATCAAGnCC TGAGAATTTA ATTTAATTTA TTTTATATT GGAGATGGTT AAAATGCTAA 60
 AACTCAACAT GAGTAACCAA AATATTGCCC TTA AAAATGC TGATCATTG 109

(2) INFORMATION FOR SEQ ID NO: 3292:

30

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 121 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3292:

40 TTGATAATTT TGATATAGAA AGTTATTTAA AATTCGAATA AAAATAATAA CTCATCGACG 60
 TTTAATGGCT AGTTCCAAT CAACTATGnG ACATAAAATC AAATTGATC ACGTAACGAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 3293:

45

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 107 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3293:

55

GCGCGTAATA CCTGCAGTAC CTCTATCGCT TCTAGATAAT GCGGGTTG 107

(2) INFORMATION FOR SEQ ID NO: 3294:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 111 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3294:

AAAATGTTAA ACCAAAAAGT TTGGTGAGTT ATAATATGGA ATATTAAATC TGTAAGAAGAT 60

AAAGCGAATA TAAAGTGATT AACTTTGGTA ATAAGAATT AACAGCGAAA n 111

(2) INFORMATION FOR SEQ ID NO: 3295:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3295:

CCCCGACTAA ATCGAAGGCT TTAATGTAAT GATTGTCCG AATCCCCATC CTGCACCTGA 60

TAATAAGCGG AATAGCAAGT TGGTTCCCGT nGGGAAGCCA CTGTA 105

(2) INFORMATION FOR SEQ ID NO: 3296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3296:

ATTTATTCAA AACC CGCCAC ATGGGGCAAC GGTGGCCATG GCATGATAGT CCAGATACAT 60

GGAAAGGAAT ACAGTCGGT TAACACTCCA TTAAAAACCT GCGGGTTGGT TAAACCAITT 120

AACCTAAATG GGTTCCAAGG GTTAACGCGG TTAAATGTT TGGAAGGTT TnCCCAAGTT 180

CCAAAAAGTT TTtATTCCCC C 201

(2) INFORMATION FOR SEQ ID NO: 3297:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3297:

TTTAGACTTT CATCAGTGTT GAATATTCT CTTTAAACGG TTATAGGTAA TAITTCCTGA 60
GAAATATTTC CATTCCTTAC ATTTCCGCT GTCAATTGAT GACTTCGATA AGCAAATTCA 120
TCTTGTAAIT CTCTTGAAC ATCATAATC TGGGCCACAT TTTGAGCACC TKGAAATCATT 180
GATGGGTGCG TCATTTCAGG TGCAAATGAT GCACGCTCAT AAAACTCAGG TAATGCTGTT 240
TCGTACACAG AATGCGGTG TTTGATTTC CAAGGTGCTC GACTTGACT TTCAACACCA 300
CCTGCAATAT ATACCTTGCC AGCTCCGCT TGGATCATGC GACATGCATA TTGAACACTT 360
TCAAGTCCAG ACCACATTG cCGATGCTT GTGACGCCAG TATTGAAGCT TAAGC 415

20

(2) INFORMATION FOR SEQ ID NO: 3298:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 164 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3298:

TTAATTGCAG CAGAGCGACT AGCTGATTCA GAGGTGTTAG TTTGTACGGT AATAGGATT 60
CCATTTAGGT GCATCGACCA ACTGCCCCGAC GAAAAGCCAT TTTGAAAACC AGAAGGATGC 120
CGATTCAAAA ATGGGTGCCA AGATTGAAAA TTTGGACCAA TGGG 164

35

(2) INFORMATION FOR SEQ ID NO: 3299:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 106 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3299:

GTAGATGCCA TTTTCACGTT TCTTAGTTAT TGGCAITTTT TAAATGCGAT GTGTGGCTTC 60
TACATAACGG GAAATTTTAA GTTTTATGAA TCAACATATC AATTGC 106

50

(2) INFORMATION FOR SEQ ID NO: 3300:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 102 base pairs

55

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3300:

AAAAGGTGTT ATGAGATTAG TAAATCAnTA GACAAGCAGG TAAATTAAGT GATGTCGCGT 60

10

CATTTAAGGA AGCGATTAC AATCGAGAAC ACAAAGTACA AC 102

(2) INFORMATION FOR SEQ ID NO: 3301:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 127 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3301:

TTAAAGTITT GGAGATTATC GTGTCGTCTT CAAGTATGCG TTCATTAATT GATATTGGCG 60

25

CACCGTATAA CCATGTCAA GTACCATTTG nAATCAGTCA TTGGCGCAIT GGCTGCCCTA 120

GCGTTCA 127

(2) INFORMATION FOR SEQ ID NO: 3302:

(i) SEQUENCE CHARACTERISTICS:

30

(A) LENGTH: 137 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3302:

CCAGCTAGAC GATTGCTAAG GTATTGGATG TTGAAACGT CCATGGACCC AATTGATTAA 60

40

TTGGnGTAA CTCGGTCAAT GGGTATATCC TAAATGCACT GGCCTGCTGG TGTTCTCTGT 120

GGCGTTGCTT CGGAAAT 137

(2) INFORMATION FOR SEQ ID NO: 3303:

(i) SEQUENCE CHARACTERISTICS:

45

(A) LENGTH: 399 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3303:

55

ATATAAATTA ACGACGGTT AATGCAGGCT GATGTGATTT TTATTGGTTT CCCAATTTTC 120
 AAGCTTCCAT CCTGGTGCT TTGAAAAATG TGTTTGATCT ACTTCCAGTC AATGCGTTTC 180
 5 GTGACAAGGT AATAGGACTT GTAGCGACAG CAGGTCTTAG TAAACATTAT TTAATTCCTG 240
 AATGCAATT AAAACCAATA TTGAGTTACA TGAAGCACA TACGATGCAA ACGTATCATT 300
 10 TATTGAAGAG AAAGATTTT CAATCAACA AATTGTCAAT GATGATGTTG TATTTCGGTT 360
 AAAAGCGTTG GCACAATCCA CAATGCGAAC TGCCAAAGT 399

(2) INFORMATION FOR SEQ ID NO: 3304:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3304:

CACCATTATT TACAGGACCT nCGATGACGT GTGGTCTGT GTTAAGACAT AACATAATAT 60
 25 TCTACCTTTG TAATCAGTAC GGGTTTATCT ATCACAGTAC GG 102

(2) INFORMATION FOR SEQ ID NO: 3305:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 202 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3305:

TCAGCGTTAT CAATGanTGA CTCTAATGCC TTTTACCCA TTTTGTAAA TGGAACATGG 60
 AAGCATAGAG ATGCGrAGTC AGCTAGCGAC TTACCTTGAC GTTTGCCTA TTCATTCCAG 120
 40 CTTTGTGGr ATGAGCGGAT ATAAGCATCT TTAGATAATG CACCATCAAC TAATGGATAT 180
 TTATGTCCAG TTGACGCCA GA 202

(2) INFORMATION FOR SEQ ID NO: 3306:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 151 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

55

AAGATAGGGA TTTACACCTA TACCTCGTTC CGGGGAAGG TCGGTGTTCT GAAAAGTTGG 60

AACTACTCCC GACCAATATT AAATTATGGG AGCGGGAAGG ATCAGGGATT TGACACCTAT 120

5 GACCTCCATT CCCAGGGAAG GGAATGTGAT T 151

(2) INFORMATION FOR SEQ ID NO: 3307:

10 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 87 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3307:

AAITTCGTTA CCTGCGCCTT CTTTTGCGG TTTTAAATA AGCGAAAATT TCAGGCGGTA 60

20 AGACATAACG TCCAGAGAATA GCTAGGG 87

(2) INFORMATION FOR SEQ ID NO: 3308:

25 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3308:

ATGATGGCAA AGTACACAAA CTGATTGTGC ACACCAATCC ATCCATCTGC GCTGTAATA 60

35 ATGGTTCGCA ATAATTTTAA AATACCTTCC GCTACATTIG ATTTAAAGCT GGTTGCGCAn 120

TGGACTAGA 129

(2) INFORMATION FOR SEQ ID NO: 3309:

40 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 128 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3309:

50 GTTCCCTTTA TCGTAGTTGG TGGGACTCCT TATCGGCATC GCGCTGGAC TCTAGCCGGT 60

GGAnACGGAC ATTCAAAAGG GATTTAGTTC ATCCAGATG GATTTCATTT TGGGGAATTC 120

CATTTGGA 128

55

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 83 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3310:
 GTACGATTCA GCATAAGTA CACCACATTT GTCACTACGA CATCTGTAGC TGGTATTGAT 60
 CATGCAATCA TGAATAACGC TAA 83

(2) INFORMATION FOR SEQ ID NO: 3311:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 85 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3311:
 CTGAGGATAA ACGTCTCCA AGATAAGTCT AAAGATCATC ATAATGGGCA AAAAAGGTGG 60
 CAGCGATTCTG GTGGCTGGGA ACAAG 85

(2) INFORMATION FOR SEQ ID NO: 3312:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 129 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3312:
 ATTTTATGTC TAAATGCTGG ACCAACAGTA TTGGCTATTA TTTGGTAACG TGATTACTAC 60
 AAAAAATGGA CGTTGAGTT CGTGGACAT GATTGATTTT GTAAGTAAGT ATGATGCACA 120
 TGGGCTrTT 129

(2) INFORMATION FOR SEQ ID NO: 3313:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 82 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

TCACCTAAAA TTAATCAAGG GACTTAACAT TGGCGAGTCA AGGTATTGAT CAAGCTAATG 60
GCACAGTTAA ATGATGCCAA AG 82

5 (2) INFORMATION FOR SEQ ID NO: 3314:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 87 base pairs
(B) TYPE: nucleic acid
10 (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3314:

15 ATGTTATGGA AGAATATTGA GTTAATTGGC AACGACATTA TACCGCGCAT TAAAAAGCCT 60
TTATCAAAAT AGTGAGGGGC GTCATCA 87

20 (2) INFORMATION FOR SEQ ID NO: 3315:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 136 base pairs
(B) TYPE: nucleic acid
25 (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3315:

30 TGAACCGTC GTTGCCCAT TGGCGTTCC CGAAAGCCGG CGCCnACGGT TCTCCCTGCC 60
TAAATAGGGG ATGGAATATT AAACCATCTG CACCTGGITT AACACGCTTT GCAATTGAG 120
35 TTAAGACATC ATAAGG 136

(2) INFORMATION FOR SEQ ID NO: 3316:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 108 base pairs
40 (B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3316:

45 CATTGGCTGT GTCCATTTT AATCGTIGCG AGTACGThTA TTAGCAACTT GGAACTGCCA 60
TTGTTAATT CAGCTGTCTG TTACATTICA ACCATAGTCT TTCACAAT 108

(2) INFORMATION FOR SEQ ID NO: 3317:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 142 base pairs

55

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3317:

ATCTGAAGCT GGGTTTACTA GAGAAGGTAT GTACGTGACA TGAATTACTA ATGGATTAT 60
TCATCGAGTT ACATCTATAG TTTATTAAT CAGATACGCC AAAATGCnAA TTAGCTTACA 120
AAGATGATGC ATTAAATGCA CG 142

10

(2) INFORMATION FOR SEQ ID NO: 3318:

15

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 386 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3318:

AACATTATGT TAATCAACCT AATGAACGtC TTTATAAATT ACGCTAAACA ATATACAGAT 60
ATGCCGTTTC TTATCATGCT GGATGAAGAT GAAAATGGAT ATAAAGCGGG TCGATTTTTA 120
AGAGCGAGTG ACTTAGGTCA AACACAGAG CAAGGCGAAT GGAAGCCAGT TATTCATGAT 180
GCAATCAGCG ATAGTTTGTAGT AGTACCTAAT GGCACAATGG GTCAACGTTG GGAAGAAGGT 240
AAGAAGTGGA ACTTAAAACT AGAAACAGAA GATGGTTnTA AAATTAnCCC TACATTATCA 300
ATGACAGAAG GTGGATACGA ATTAGAAACA ATTCAATTCC CATACTTTGA TAGTGATGGA 360
GATGGGATAT CATGCTCCAA TCCnAC 386

30

35

(2) INFORMATION FOR SEQ ID NO: 3319:

40

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 123 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3319:

ACAATGAATG ACATGATTCG AGGTGGACGA CCCCTCCTAT TTGCATAAA TGCTTTTTGA 60
ATCGCCGGTC ATATGTTTCG TIGnCCAATT AACTCAATAT TCCTCATGAC ATTTTCAAA 120
GGC 123

50

(2) INFORMATION FOR SEQ ID NO: 3320:

55

(A) LENGTH: 104 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3320:

10 GCGGAAGTGT CAATTGCCGG TATACAACGT ATTTTAAGAG CTGCAGAACA TnCGGGTGT 60
 AAACGTGTGG TCAATGACTG CCAACTTTGG TGCAGTTGGT TTTA 104

(2) INFORMATION FOR SEQ ID NO: 3321:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3321:

25 GCGCCGGTTT TAACAGGTAA TTTAAAACCA AATACTGATA GTAATGCATT AATAGTCAGC 60
 AAAATACAAG TATT 74

(2) INFORMATION FOR SEQ ID NO: 3322:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 87 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3322:

35 TCACCTCAGGG GGAGATGTCA ATGGGTCAAC ATTATTTGAC AAGGTGTGGA CAGACATGTG 60
 40 TTATACGGGA AATTGGGCGA CCGCACT 87

(2) INFORMATION FOR SEQ ID NO: 3323:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3323:

50 TGCCAAATGT TCCCATTAATT TCATTACGAG TCCTAAGTAG GTGGCTATCA TTACGATGCC 60

55

AATGCGGTCG GAAAGATAAA TAGCTTCATC AATGTCATGC GTCACATAAA TAATAGTTGA 180
 TTGCGTTTGA TGTTTTAGTT GCACTAGTTG ATCCTGAAAT TTATAACGTG TAAATGCATC 240
 5 TAATGCACCT AATGGCTCAT CCATCAATAT AACGTTAGGC TTATGCACAT GCGCTCGACA 300
 TAGTGCCAAA CGTTGTTTCA TACCCCGGGA CAGTTGCTCG GGAATAATGCT TTCCCTCTGC 360
 TTCTAAATCA ACTAATTAA GCTGTGCGTT AATCTCTTCA 400
 10 (2) INFORMATION FOR SEQ ID NO: 3324:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106 base pairs
 (B) TYPE: nucleic acid
 15 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3324:
 20 GAAACCATCG ATTGTAGCAC GAACCATGTT GGATTGGTGT GTTTGATCC TAATGTATT 60
 ACTTAAGATA TCAGTGATAC CTGTCTAATT GCAAGTACGG TCAGGA 106
 25 (2) INFORMATION FOR SEQ ID NO: 3325:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113 base pairs
 (B) TYPE: nucleic acid
 30 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3325:
 35 TCTGAATCG CTGCTGAAT CTGGAATCAC TGTCTGAAAT CGAAATCGC TAATCTGAAA 60
 TCCTGAAATC CGCTAATCTG AAACCTGGAA GTCGCTGGTC TGGAGCCCT GAA 113
 40 (2) INFORMATION FOR SEQ ID NO: 3326:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 78 base pairs
 (B) TYPE: nucleic acid
 45 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3326:
 50 TGTCACGTAC TTGCTGTTCA ACAAATACGT CTTACTGGAC GTGCACCTCA TTCTTCATCA 60
 TAGCCTTCTT CATTAAAC 78
 55

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 119 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3327:

AATTGAAAAT TATCTTACTG CGGTTTTTAG GGGTTTATGT CCCAGCCTCT TACTCAATT 60
 ATATTCACTA TCCATTAGAC CAAATGGGCC ATTTCGAATA ATCCCGGGT GGTTCGGA 119

(2) INFORMATION FOR SEQ ID NO: 3328:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3328:

GTGTTAAAAC GTCACGACGT TTGTTTAAAA TGATGGGTCA TAATGTCTAC ACTTGTCTG 60
 CGATCAITCA T 71

(2) INFORMATION FOR SEQ ID NO: 3329:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3329:

CTGACGAACC TTGCATCATT TAACTGTCCA TTAGCTTGAT CAATACCTTG ACTCGCAATG 60
 TTAAGTCCTT 70

(2) INFORMATION FOR SEQ ID NO: 3330:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3330:

CCAATCTCG

69

(2) INFORMATION FOR SEQ ID NO: 3331:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3331:

GGACACTAAC ATTAATATGG ACTGGTAATG TTGCTGTATA TAAACTCATA CCAATCCTG
 GGCATCTCTT

60

70

(2) INFORMATION FOR SEQ ID NO: 3332:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 82 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3332:

CCTTGGGCAC CTTCAATTG CATATTACGA CGTTTGCAG CTTGGTTCAA TTGGCAATAA
 CTACACCTAG TGCAGTTGGA TC

60

82

(2) INFORMATION FOR SEQ ID NO: 3333:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3333:

ATAAAATAAT TAGAACTCTA ACATTGGTTT AACTAATGTT TAGACTTTTT GTGGTTTGTA
 AAAACAAGTA TATTGA

60

76

(2) INFORMATION FOR SEQ ID NO: 3334:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3334:

5 TGTTAAGTTG AATAAGTAT TGAATCGTT GCCAATATCT TTATACCGTT GGITCCTGGC 60
 ATTTATTGGG AGGC 74

(2) INFORMATION FOR SEQ ID NO: 3335:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3335:

15 AGATAGTTAT GCGCAGTTAA AACCGTGAA ATGTATTGTC AATAATATGC ATATAGGCAC 60
 20 CATACGAGTA AGGG 74

(2) INFORMATION FOR SEQ ID NO: 3336:

25 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3336:

30 TTGAATCATT GTAAAAATG GAATTAAAGT TGCTAGTATC TGTCGGGTTT TGAATAGGT 60
 CATAGGAGAA AACAGG 76

(2) INFORMATION FOR SEQ ID NO: 3337:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3337:

40 CCAAAGAGGC GTTATTAAGC TATIGATAAA AGTTATGTTA CTAACAAAATG TATTAAATA 60
 AGTAGTACCT AA 72

(2) INFORMATION FOR SEQ ID NO: 3338:

55 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 75 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3338:

ATAAGTCGTT CTACCGTATA GCCGTCATTA TTAATCACAA ATAATACCGG TTTAATATGC 60
TGTCTGGTCA TAGTT 75

(2) INFORMATION FOR SEQ ID NO: 3339:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

15

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3339:

TTTCATCAAAG TATTCCAATG GGAGAAAAAG CACAATAACA TTATCACTGG ATGCTAAATC 60
TAAAGGAACC TC 72

(2) INFORMATION FOR SEQ ID NO: 3340:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 77 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

30

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3340:

GTAAAAATAT TTTAATGAAT GTCCTCACTG GAGAACCATT GACAACCTGG TACAAGTGGG 60
ATTATTGGCG TTATTTT 77

(2) INFORMATION FOR SEQ ID NO: 3341:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 67 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

45

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3341:

AACCAAGGAT GGATTGCTAT TTTAATCCTT GGTGCTCTT TATTTTATT AAATTGTAGA 60
ACCTAGA 67

55

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3342:

CTGCGCAAAG CAGTTTTC AAGCATCAAT CCATTAATTA ATAATTCAT TAAATGTAGA 60
 TTCACAGGGA TATG 74

(2) INFORMATION FOR SEQ ID NO: 3343:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 415 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3343:

GTTTGATCAT TAGAGAGATA TAGATATGCC GTAGAAAATA ATATGTCATT TCGGGATATC 60
 ATGGTTAAAG AAGAAATGGA ATTAAGCGGT AATCACGTG ATGAAGTGGC AGCGaAATGA 120
 AACAAAAATT AGATGTCATG CGAGACGCAT AATCAAAGGG ACGACAGGTG ATGGGGTTGA 180
 AAGTGTAcGG TCTACACTGG TCATGATGCT GCTAAACTAC GTGATTATAA TGAACACAT 240
 CATGCTTGT CTGGGATATG AAATGATTGA CGCACAAGGG TGCCATTGCA ACAAAATGAAG 300
 TCAATGCTGC CGATGGGTAT TATTGTGCA CGCCAACAGC TGGTTCCTCG GGTACCATTG 360
 CCGGTGGCAC TTTTAAATTA GAAAAAACAC TGGATnGAAC CAGAAGAGCC AATGn 415

(2) INFORMATION FOR SEQ ID NO: 3344:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 84 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3344:

TCCTATACCA CCACCGTCAA CAGCTCCTGC CATCGATCGT ACTTTCaATA AGTCCAATAA 60
 TCGCAGTGGT AATTCTAAT ACTA 84

(2) INFORMATION FOR SEQ ID NO: 3345:

- (A) LENGTH: 474 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3345:

10 CGGGAGGTGT TAAATCTTCA CAAATGCGG TACTATTCTT TGATGnAATC CATCAAATTA 60
 TCGGTTTCAGG TGCCACAGGA AGTGATTCAG GTAGCnAAGG GTTATCTGAT ATTTTGAAAC 120
 CTGCATTAAG TCGTGGTGAG ATTTCTATTA TTGGTGCaAC AACACAAGAT GAATATCGAA 180
 15 ACAATATTCT TAAAGATGCT GCATTAACGC GCAGATTAA TGAAGTGCTT GTTAATGAAC 240
 CAAGCGCTAA AGATACTGTT GAAATTTTAA AAGGTATTCC CGAAAAATTC GAAGAACACC 300
 ATCAAGTAAA ATTACCAGAT GACGTATTAA AAGCATGTGT TGACTTATCA ATTCAATATA 360
 20 TTCCACAACG ATTATTACCA GATAAGCAA TCGATGTGTT AGATATTACA GCAGCACATT 420
 TATCnCGGCA AAGnCCAGCT GTCGATAAAG TTGAAACTGG AGAACGAATT TCTG 474

25 (2) INFORMATION FOR SEQ ID NO: 3346:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3346:

35 AAAATTAATA ACTCCTTGGT TATTGATATG CCTAAAGAAG AAGGTACAAT ACAACTAACA 60
 TTAG 64

40 (2) INFORMATION FOR SEQ ID NO: 3347:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3347:

50 AGGAATAACT TGATATTGAT GATAAAATCG TCAACGGCA CTAATATTTA AAAACAAAT 60
 GTTTTAAGTT GTTGATTAA AATATTAAT 89

55 (2) INFORMATION FOR SEQ ID NO: 3348:

(A) LENGTH: 107 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3348:

10 ATAACITGTA CTGCTTCCCA TTAATCACTG TGTCTCTTCA CCAGGAGCTG GCATTTCCTT 60
 AAAGAACanT TCTGATAAAG GTACAATTTC ACCGGGCATA ACTTCAT 107

(2) INFORMATION FOR SEQ ID NO: 3349:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3349:

25 CAACGCATCC TGCACITTTA CCTATTCCTG AATCACCGGT AATTAGTACA CCAACACCGT 60
 AAACATCTAC TAAA 74

(2) INFORMATION FOR SEQ ID NO: 3350:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3350:

40 AGATGCACCT ACTTCTAACT GTGCGCAACA TCGCCGCAAT CATTTCAAAA CTACGTTCTG 60
 TA 62

(2) INFORMATION FOR SEQ ID NO: 3351:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3351:

55 GCTGCAAACA ACAACTATT TTGATTAAA TTGTGGATAT GATGGTAACC AACCAAGTCT 60

(2) INFORMATION FOR SEQ ID NO: 3352:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3352:

ATTGAACGCA AGATTTTCGAT ATAGAACATC TAGCGACGTC GATTCGCAAG GTTGAACCAT 60
 CTACATTAGG TGAGGAA 77

(2) INFORMATION FOR SEQ ID NO: 3353:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3353:

TAATCAACAC GAGGAGATGC TATTTAATGT CATCTGACAC AAACAGTTTA GCACATACA 59

(2) INFORMATION FOR SEQ ID NO: 3354:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3354:

TTATGTAACC GACGAATGCT GCGATAGTGC TACGCCATCA CGCCAGCTA ATCCGATTG 59

(2) INFORMATION FOR SEQ ID NO: 3355:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3355:

TAACTATACC TTTAGGGTTA CTACCACGCT TAGGTAGGTC ATAACCTTTA ACCACATCT 59

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3356:

AATAACGCTA AACCTAAAT GCTAAATAAT CCGCCGAACA ACATGCCGTT GTTTCTTGA 59

(2) INFORMATION FOR SEQ ID NO: 3357:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3357:

CCAGAACCAC CCAGCCCTT TGAATATGGG AACTCAAAC GATCTACTGG CTGATGTAAT 60

TACCCCTGTT TTGATTG 77

(2) INFORMATION FOR SEQ ID NO: 3358:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3358:

AAGTTAGGTC TAGGGAACAT CGATAAATTA CCAGTAGTAA ATGCAGTTGA ACAACCAGA 59

(2) INFORMATION FOR SEQ ID NO: 3359:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3359:

CATGACCTTT AAATTGCATA TCTCTGCAT CAGGTGCATC GCTTTTAACA ATAACGTCA 59

(2) INFORMATION FOR SEQ ID NO: 3360:

(A) LENGTH: 104 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1554:

10 TTTGAnATCA AATTCACTTC GCAAACGTGT CCAAGCGTGA GCAAAGGGCT AGATGATTAA 60
 TAGTTGCCCC ACTAACGGGA TCGCCCCAGT TATCCAACCTT ATCT 104

(2) INFORMATION FOR SEQ ID NO: 1555:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 100 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1555:

25 AATAAGAAAC AnGACACTAG CTCACCACGA CGCGCACGGC CTGCGTGTAA AAATGTTGGT 60
 GGCGCGGGTT GGAGATCGTG TTCAACCAGA GCAGAAAATA 100

(2) INFORMATION FOR SEQ ID NO: 1556:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1556:

40 CAATGAAATT ATTTATTATT TTAAGTGCAT TAAACCCGA TGATGGCTGT CCGGTACCAG 60
 GTGCATTITG GTGCCCATGG TTACC 86

(2) INFORMATION FOR SEQ ID NO: 1557:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 78 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1557:

55 GTCATGTTCC CATCAAACCT AATTGTACT TACTAAAGGC TCAGCAGCGC AACAATTAGG 60

(2) INFORMATION FOR SEQ ID NO: 1558:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 82 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1558:

AACGTGTTAC AGAAATACCA CGTCTTGT TCAACTTTCA TCCAGTCACT TGATGCAAA 60
 TTTACCAGTC TTCTTCCTT TA 82

(2) INFORMATION FOR SEQ ID NO: 1559:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 78 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1559:

CCACAGCGGC ACTATAGCCA GCCCCTAATA TATACAGTAT TTGCATCTGA CTCATTGGTT 60
 CATAAGTATA TGCAGTGA 78

(2) INFORMATION FOR SEQ ID NO: 1560:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1560:

ACCATTGCT AACTTTTAG CAGCGCAATG TTCTTATTAA CTGCTTACGC CATCTATAAA 60
 AATAAACGTT CAACAA 76

(2) INFORMATION FOR SEQ ID NO: 1561:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5 TTGGAACCCA AATTTTTTTA ATTTTCCCAA AAATTGGGGG GGGACCCCA ATTCCCTTAA 60
 GGGTTTTCTT TGGGGGCCGG GGGTTAATTC CACCCGGGT TAAAATTTTC CCAAAAATTA 120
 10 ATTTTnGAAA AGTTTTTAAT TAAGGAAACC CATTnGTCCG GAATTTTTC CCCATCCTTA 180
 TGGGGGTCC CAAAGATTCC 200

(2) INFORMATION FOR SEQ ID NO: 1562:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1562:

20 AACACAGAGA ATAACCAAGA GAAGACGTTT TCATCTGAAG AAAGTAACAG TAmGCCATT 60
 ATGGAAGAAA ATCAAAACGA TGAGATAGTT ATAAAAGAAG ATTCATATAA TCCATTGTA 120
 ACGAAAACAT CTGAAGGTTT AATAGCTGAT GATGAATCTT CTGGTTATAA TAATACACGT 180
 25 GAAAAAGATG AAGACTACTT CAAAAACAA CAAGAAATT TACAAGAAAT GGATCAAACA 240
 TTTGATTCAA ATGATGGTAC AACTGTGCAA AATTATGAGA ATAAAGCGTC TGATGATTAT 300
 30 TATGATGTAA ACGATATTAA AGGAACAAAA AGTAAAGACC CTAAACGAGG AATTCATAT 360
 ATGGAATTGT TGGnCAGTCA TGAACGTTA TTATGCTCA 400

(2) INFORMATION FOR SEQ ID NO: 1563:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 454 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1563:

45 TCTTCATCAT CTCTAATTT ACCAGCTGGA ATTTCTAGCA ATGGTTTTTC TACTGGTTTA 60
 CGATACTGTT TCACATAATC GACTTCITTT TTAGGTGTCA CTGCACAAAC ACAAACGTCA 120
 CCATTATGAT AAACTAATTC TCTGTGTGAC GTTTCACCGT TTGGTAATGT CACTGTATGA 180
 50 ATTTCTACAT CTACAATTTT GCCATTATAA ATAACTGTTT GATCAATTGT TTTTTCATT 240
 AAATCCATTA TAATCACGTT CTTTAAATT CATATTATAT ATTGATACAC TATGCTTGTT 300
 AGCTAAAGTG TATCGAAAGG AGAACAGACA TGCAAAAAA TATATTAATA AGTGGTATT 360

AAATTATAGG ATTGTGCTGT TGAAAATGGG TATC 454

(2) INFORMATION FOR SEQ ID NO: 1564:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1564:

ACATCTCGCA TCGTCAGAC TTGCTTGAAC CACTAGCAGG TCAAAACAAAG CTGTACAGGC 60
 AACATCTGC 69

(2) INFORMATION FOR SEQ ID NO: 1565:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1565:

TCCAGAACCA TTTTAAATCC CGGGAAATAT AATTACCTCC ACTAaNGTAA TATATCCAAG 60
 CCAAGACTAA TCCTCCTTAA GCGGTTTAA GTAACCAAGT TGAGAAGGAT TTTTGG 117

(2) INFORMATION FOR SEQ ID NO: 1566:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1566:

TATTGAGATT AACAGTCTGG GAAAAATGAA CAGCAATTGT nTAATGTGAC GATGCTGATT 60
 ACTTTTAAAC AGTATCATT AATAACTCAG AGATGCGCTT TAT 103

(2) INFORMATION FOR SEQ ID NO: 1567:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 81 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1567:

AATGGATGGG ACAGCAATTA GTGCATAACG ACAATATATG CTCAATTGTG CGGCAACTGG 60
 TTAAGAATCG TATTGTCACA A 81

(2) INFORMATION FOR SEQ ID NO: 1568:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 80 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1568:

AATGGATTCA GTAGGTATTG GTGAAGCGCC AGACGCAGCT GATTGAAAG ATGAAGGTTT 60
 ACATACCTTT AGCATACCTT 80

(2) INFORMATION FOR SEQ ID NO: 1569:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 95 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1569:

TTTTTAAATA CGATTTTAAG GAGGCCATTA TAATGGCGAG TAAAAGTAGC GAATTAATGG 60
 TTTTGGTTAG GAATTGCTGC TTTAGGCATT CAGGA 95

(2) INFORMATION FOR SEQ ID NO: 1570:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1570:

CCCAATAAAA AAAGCCTGTT GTCACAATGG TCATAGACAC GTACATACTT TAAAGGTTTC 60
 TGTAAATATAA ATATTTCATA TGCCACTTTA AAGTTGGAAC GTTCGTATGT TGTACTAA 118

(2) INFORMATION FOR SEQ ID NO: 1571:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 104 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1571:

GACTTGATCA ATGAAGCATT GTGTGACAAT TGGTCTGTTT GCACACCGCA CGGATTGnGC 60

10

GTCATTATT TGTACTAATT CAAAAAACAT TGTGTTTTC CTAG 104

(2) INFORMATION FOR SEQ ID NO: 1572:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 118 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1572:

CGGAAGTGA ATGGTCCTAA TGTTTACTC ATACCATATT GGTAAACCAT TGAGCGGCGA 60

25

TGTGTTGCA CGTCGAGCAT TGAGACCGTT GTAATCGTAA nGTATATCTC TGTACACG 118

(2) INFORMATION FOR SEQ ID NO: 1573:

(i) SEQUENCE CHARACTERISTICS:

30

(A) LENGTH: 74 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1573:

AGGGATCAA GGTCCATCCC CCATGCATTG GATAGTGGGG GATGACTTTT GATCCTATGT 60

40

TCCAGTTGCT TATT 74

(2) INFORMATION FOR SEQ ID NO: 1574:

(i) SEQUENCE CHARACTERISTICS:

45

(A) LENGTH: 341 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1574:

AACCTTTTGA GTAAATTCAC CAATACTCAT CCCCTTATCA TTTAACAAC TTTTATTAAT 60

55

GTTTTGGTT ATATTATGAG TCTTTACTGC TTTTAGATTG TAAAAATTAT CGTCATAAAT 120

GTAATTAATG TAATAATAGA AAAGTGTATA TATCTCATAT CGCCACCTGC TATACAACTT 240
 ATTAAATAAT TAATTCCAAG ACATATTAAAT TATCTAAATTA TAACCTTAGT ThACGTATT 300
 5 ACATAATATA AAAATATATA ATAACCTTATC CnCCGGChCC T 341

(2) INFORMATION FOR SEQ ID NO: 1575:

(i) SEQUENCE CHARACTERISTICS:
 10 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1575:
 15 ACGTGTACCA ACTTTTGGGC ACCATTGATA ATAngTGTCA TAGGGTGACT CAGCATAACG 60
 20 GGCAAGCCTA TTAATGATAG CCAGATTAAG ACATACAGTA CATATGTTT 109

(2) INFORMATION FOR SEQ ID NO: 1576:

(i) SEQUENCE CHARACTERISTICS:
 25 (A) LENGTH: 79 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1576:
 30 GCTAGATTGC GGGAAATTAAC AATCATCAGC GATTTAATAT TTGCATGGA GACGTCATGG 60
 35 TAATAAAAAA TTGATGAGA 79

(2) INFORMATION FOR SEQ ID NO: 1577:

(i) SEQUENCE CHARACTERISTICS:
 40 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1577:
 45 ATGATGGCTA TCATGAGATT GAGATGATAA TGACAACAGT TGATTTGAAA TGATCGTGA 60
 ACTTTTCAT 69

(2) INFORMATION FOR SEQ ID NO: 1578:

(i) SEQUENCE CHARACTERISTICS:
 50 (A) LENGTH: 104 base pairs

55

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1578:

AAATTGTCAC TnCAGGTCAT AACCAACCAG GTGGGACTGC ACGAGCGTTA CTAATGATCC 60

10

AACGGTCTTG CTTTGATG AGGCAACAAG TGCATTGAT CCGC 104

(2) INFORMATION FOR SEQ ID NO: 1579:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 89 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1579:

GCTCAATAGA TACAACTATT AGGACAACGG ACTATCGTTT ACAATTATT CAGATAAGG 60

25

ATCGCGCAGG TCGTATGGT AACTATGCA 89

(2) INFORMATION FOR SEQ ID NO: 1580:

(i) SEQUENCE CHARACTERISTICS:

30

(A) LENGTH: 102 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1580:

TTGTCTCTAA TAATGGnTTT GGCTTTTTCT AAAATTTCAG ATGTGGGTGC TGTGAAGCA 60

40

CCGACTGGTT AATTITCTTG TCGTCACGGC CACTTTTGT TT 102

(2) INFORMATION FOR SEQ ID NO: 1581:

(i) SEQUENCE CHARACTERISTICS:

45

(A) LENGTH: 102 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1581:

AAGGTGCTGT TATTAGGATA ATGnATTIAA ACCCCATGGT ATGAAGGATA TCTGGAAGTT 60

AGATTGGATA TCCCTTAACC ATGGGGGGTT TTATTTTGG GG 102

55

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 160 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1582:

TTCAGGGGAG CTGAACATAT TGACGACTTT TGGGTCAATT CATTTTGCAT TTTACTTTTA	60
AATGCGTTGT TGCATGTAAT TGTATTAACG ACATACATGG TGGGGCTCTA AATTAATGCT	120
TGACTAATTT CTGGATGGA GACCACGATT TACCAACTCA	160

(2) INFORMATION FOR SEQ ID NO: 1583:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 348 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1583:

TAAAGCAAG TACATTAGAG GTTAGATCAC AAGTACTCA AGACTTGAGT GAATATTATA	60
ATAGACCGTT CTTTGAGTAT ACAATCAGT CAGGATATAA AGAGGAAGGA AAAGTGACGT	120
TTACTCCTAA TTATCAACTT ATAGATGTAA CTTTAACTGG GAATGAAAAG CAAAATTTTG	180
GTGAAGATAT TTCTAATGTA GATATATTTG TTGTAAGAGA AAATTCTGAT AGATCTGGTA	240
ATACAGCTTC AATTGGTGGT ATTACTAAAA CAAACGGTTC AAATTATATT GATAAAGTAA	300
AAGATGTAAA TTTAATAATT ACTAAAAACA TCGATAGTGT TACATCAA	348

(2) INFORMATION FOR SEQ ID NO: 1584:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1584:

AGCCAGCAGT AGATAGATAT ATTAATGAAT TCTTGGAGAA AGGTAGCTCA AATTGTCCAA	60
TTGAGATATT GAA	73

(2) INFORMATION FOR SEQ ID NO: 1585:

(A) LENGTH: 255 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1585:

10 GTAAGGAATG GTCACGTATT CCACACTTCT ATATGAATTA TTATGTATAT CAATACGCAA 60
 TTGGTTACAG TGCAGCTCAA AGCTTAAGTC ATCAAATTTT AaCAGAAGGT AAGCCAGCAG 120
 TAGATnGATA TATTAATGAA TTCTTGAAGA AAGGTAGCTC AAATTATCCA ATTGAGATAT 180
 15 TAAAAAATGC TGGTGTAGAT ATGACAACAC CTGAACCAAT TGAACAAGCT TGTGAAGTTT 240
 TTGAACAAAA ATTGA 255

(2) INFORMATION FOR SEQ ID NO: 1586:

20

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1586:

30 TTATTAGGTG AATCCATTGG CAACATTGAT TGGTTTGTC TTAGGACAAA TTTTATTATA 60
 CATTGGCGTT ATTTTACTA TCTTATCTGG TATTGAATAC TTTTATAAAG GTAGAGATGT 120
 TTTTAAACAA AAATAAATAT TTGTTTATAC TAGATTTCAT TTTCATATGG AATCTAGTTT 180
 35 TTTTAATCCC AATTTTAGAA ATTAGCCACG CAATTGTTTA TAATGATATA TTGTAARACA 240
 ATATTGTTTC ATTTTTTTAG GGAATAATCTG TAGTAGCATC TGATACATTG AATCTAAAT 300
 TGATGTGAAT TTTTAAATGA AATACATGAA AAAATGAATT AAACGATACA AGGGGGATAT 360
 40 AAATGTCAAT TGCCATTATT GCTGTAGGCT CAGAATATT 400

(2) INFORMATION FOR SEQ ID NO: 1587:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 561 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1587:

55 CAAAGCGTCT ATTATTGTTT GATTTTGATG AAACATATTT TAAACATAAT ACAAATGAAG 60

AAGTGATCAC TGCTGTATTG ACAGGAAGTA CATTTCAAAG TGTATGGAT AAaATGGATC 180
 AAGTTAATAT GACGTTTAAA CCATTACATA TCTTTTCTGA TTTGAGTTCT AAAATGTTCA 240
 5 CTTGGAATAA TGGCGAATAT GTTGAATCAG AAACATATAA AAAGAAAGTC TTGAGCGAAC 300
 CATTTTTATT TGAAGATATT GAAGATATAT TACGTCATAT TTCTGCGCAA TATAATGTGG 360
 10 AATTATTCC ACAAGAGCA TTTGAAGGTA ATGAAACACA TTATAATTTT TATTTTCATT 420
 CAACAGGTAA TCACAACAAT GATAGTCGTA TCCTAGAAGC ACTnntCAGA TACGCAAATG 480
 ACCAAAATA TACAGCGAGA TTTAGTCGAA GCAATCCATT AGCTGGTGAT CCTGAAAATG 540
 15 CGTATGATAT TGACTTCACA C 561

(2) INFORMATION FOR SEQ ID NO: 1588:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 79 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1588:

CCAACAGTTT TATCATTATG GCAAGTTCTG TTAACCTGC TGAGAGTTAT TTTGCACTGA 60
 30 TTGCAAAACC AGAAATGG 79

(2) INFORMATION FOR SEQ ID NO: 1589:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1589:

GCAGATATGC AGCAATTTAT AGAGGACTAG TAAACGCATA TATGACTTAC AGCTTTCAGA 60
 45 CAAATAGCTT TGC 73

(2) INFORMATION FOR SEQ ID NO: 1590:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

TCATTTTATG GITGATCATA GSCGTCGTCT TTTTCCTTGG GGATTTTATC TTTAAATACA 60
 CAGATTGGCG C 71

5 (2) INFORMATION FOR SEQ ID NO: 1591:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 78 base pairs
 (B) TYPE: nucleic acid
 10 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1591:

15 ATACAATACA ATTCACACCA TATATGGATA AAATGCAAGA TGCAATTACT GCAGTTGCAC 60
 AGTGCAGTA GCAATACC 78

20 (2) INFORMATION FOR SEQ ID NO: 1592:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 168 base pairs
 (B) TYPE: nucleic acid
 25 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1592:

30 CCAATTAATT AAAAACCGGA AAACCAATTT TTAAACCAA TTAAGTTAAA AATTTTITAA 60
 AATTGGGCCC CAAACCTTGG AAAAAGGTTT AATTTTCCTT TCCCAATTTT CCCAAATTTT 120
 TTAAACCAA AAATTCCTCG TTTTGGGTTA AATTTCCCTn GGTAAAT 168

35 (2) INFORMATION FOR SEQ ID NO: 1593:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117 base pairs
 40 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1593:

45 TGCTAGAAG TATAGAACT GGTCAAACG CATGGTTTAA TGTCCTTTT TAAACnGATG 60
 TTTATTAAAA AAATATGGAA ATTGGCCACG TCCGCCAATT TCCTTAGAAA AGAACGT 117

50 (2) INFORMATION FOR SEQ ID NO: 1594:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 66 base pairs

55

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1594:

AGACGAAGCC AAAAAGTTAT TGCCTAAATC TGAAATATTT TCAAAGACCT TAAAGGCGTA 60

10

AAATAC 66

(2) INFORMATION FOR SEQ ID NO: 1595:

15

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1595:

ATTTTATTTA GGCCAATAAC TgCTACTTC TGAAATAAGT TGCTTGCAT AGTCTGACGC 60

25

GGGATGTTTG GATAATATCT TCTGTGTAT TGCAATTGCAA 100

(2) INFORMATION FOR SEQ ID NO: 1596:

30

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1596:

GACCAGACGG CCGTAAACCT GGATGAAACC GTCCATTAGA TTCTGAAGTT GGTATTTTAC 60

40

CTAGAACGCA TGG 73

(2) INFORMATION FOR SEQ ID NO: 1597:

45

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1597:

CTTTATAAAA TTGTCTTTGA CTAACAGGAT TTTCACGCT ATTCACAAAC CATGGTTTAA 60

55

CATATT 66

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 139 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1598:

TATGGCACCC TCTTTGATnT TGTGACCGTT TTTGGTAATT CACCATTATT GTACGAACCA	60
TGGAATTCGC TGCCTTCCTT TAGGCAATAA CATAATTATA TTTATCCCT TCTGTCACT	120
AGAGGTGCTG ACAACACCA	139

(2) INFORMATION FOR SEQ ID NO: 1599:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 101 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1599:

CTCCTCTGCA TGCACATCTT GTTGTAGCAA GGTCACATG TAATTTATTA AATCGAACT	60
CTATCCAACCT ATGTTATAAA GTTCATTCTA AACAAATnAG T	101

(2) INFORMATION FOR SEQ ID NO: 1600:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 172 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1600:

TTGTACCAAG GTTCACATGT AATTATTATA AGCGAAACGC GTATCCAACCT ATGTTATAAA	60
GTTCATTCGT AAACAAATAA GTATAAAAAT TCAATATTTT TATTACTAGA ATATGGTTAA	120
ATACATTIAT TTCTTATAAn AATTGTATGT TTAAGATATT TTGCCAAATT GA	172

(2) INFORMATION FOR SEQ ID NO: 1601:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1601:

5 TTGGCACTGG CCGTCGTTTT ACAACGTCGT GCACTGGGAA AACCAAAhCA CGACGTGTGA 60
 AAACGACGGC CAGTGCCAG CTTGCATGCC TGCAGGTCGA CTCTAAGAAG GA 112

(2) INFORMATION FOR SEQ ID NO: 1602:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 679 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1602:

20 TGCAATGGTT AATCATCTCA TATAACAACA CATAATTGT ATCCTTAGGA GGAAAACAAC 60
 ATGACAAAAC ATTATTTAAA CAGTAAGTAT CAATCAGAAC AACGTTTCATC AGCTATGAAA 120
 AAGATTACAA TGGGTACAGC ATCTATCATT TTAGGTTCCC TTGnATACAT AGGCGCAGAC 180
 25 AGCCACAAG TCAATGCGGC AACAGAAGCT ACGAAGCGAA CTAATAATCA AAGCACACAA 240
 GTTTCCTCAAG CAACATCACA ACCAATTAAT TTCCAAGTGC AAAAAGATGG gCTCTTCAGA 300
 GAAGTCACAC ATGGATGACT ATATGCAACA CCTGGTAAA GTAAATTAAAC mAAATAATAA 360
 30 ATATTATTTTCAAACCGTGT TAAACAATGC ATCATTCTGG AAAGAATACA AATTTTACAA 420
 TGCAAAACAAT CAAGAATTAG CAACAACGTG TGTTAACGAT AATAAAAAAG CGGATACTAG 480
 AACAATCAAT GTTGCAATTG AACCTGGATA TAAGAGCTTA ACTACTAAAG TACATATTGT 540
 35 CGTGCCACAA ATTAATTACA ATCATAGATA TACTACGCAT TTGGAATTGG AAAAAGCAAT 600
 TCCTACATTA GCTGACGCAG CAAAACCAAA CAATGTTAAA CCGGTTCAAC CAAAACCAAGC 660
 40 TCAACCTAAA ACACCTACT 679

(2) INFORMATION FOR SEQ ID NO: 1603:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 85 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1603:

50 CAITTTAAATT GATATAATTT AGACTTTAAC ATTTCATGCT GTTCACGGTT TTAATTTGAG 60
 55 ACGTCATTTG GTATAACAAC TATAC 85

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 68 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1604:

ACTGGTGTGA ATAGCTCCAG CAATTCTTT AACCGGATC ATAATCAACG TCACCTTTTA 60
 ATTGCCA 68

(2) INFORMATION FOR SEQ ID NO: 1605:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1605:

TGGGGGGTnt TTTTGGGTG GGITAAAAA AGGGAATTGG CCCAAGGGG GAATTCCTT 60
 AAAAAACCC CCAACCCCT TGGGAAATTA AAAATTGGGT TAACCGGGA 109

(2) INFORMATION FOR SEQ ID NO: 1606:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1606:

GCTTATATAC ATGTTCATT ATAAAAGGAG TACGAACGAA AGTAACGCAT GACGTTAATT 60
 TAAAAATATT GTAATAATTA TGGATTAAAT TAAAAACCAh GGGGTATTCC AT 112

(2) INFORMATION FOR SEQ ID NO: 1607:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1607:

GTTCAGTTG GTAACCTAAC AACACGhAAT TAGTTTAAAC GTTGG 106

5 (2) INFORMATION FOR SEQ ID NO: 1608:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 83 base pairs

(B) TYPE: nucleic acid

10 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1608:

15 CACACTGATA CCATAGGATT TATGATAGAT CAACAGCATG ACCAAATGTA TGACCTAAAT 60

TTAAAAATTT ACGTACACCT TGT 83

(2) INFORMATION FOR SEQ ID NO: 1609:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 132 base pairs

(B) TYPE: nucleic acid

20 (C) STRANDEDNESS: double

25 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1609:

30 AAAAGAATAA AGTCACTGAA CAATGGTCTT TCACAATGAT GTTGCCTCAA TGCACAAGCG 60

CATTATGtnt GTGACTTGGG CATTTTGGCT TATCAGCTGA ATATTATACG CATTTCATC 120

CCAATTAACG TA 132

(2) INFORMATION FOR SEQ ID NO: 1610:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107 base pairs

40 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1610:

45 TTTAATGCAT ACGCTTCTCG CTTAGCAATT TCTTTGCACG TCTAACAGC ATTAACGCTC 60

TTATtACTAT AATCACAACA AAACCAGCGA AATATAACAT GCGTATA 107

(2) INFORMATION FOR SEQ ID NO: 1611:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 84 base pairs

55 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1611:

5 TTGCGACCTG GTATCGTTCA AACCAACAAT GATGGCCCGT CTCGCGGTGG CAACAGCCGA 60
 AGACCGCAGG TAAACCTGA ACGC 84

(2) INFORMATION FOR SEQ ID NO: 1612:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 127 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1612:

20 ACTCACATGT ACGATAACAC CCTTCGTAAA TCCATCTTTG GTTGCCTAAG TTCGTCGTTG 60
 TAAATGTCT ATACTCGTTA AACCGCTACA TGTTTTCCTA AAnCTGTGC CTAATGCTT 120
 TACTGAA 127

(2) INFORMATION FOR SEQ ID NO: 1613:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 129 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1613:

35 CGTTCAACTT TTTCAAATTC TAACGGCGTT TTAATATCTT TATCTGTAAC TAATTCAACT 60
 CCAAACATTA AGCGTCGTCC TCCTACATCA CCAACATTC GATGACGCTT CAGCGCATGT 120
 40 AACTGTTC 129

(2) INFORMATION FOR SEQ ID NO: 1614:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 348 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1614:

50 nCAACTAGTG GATTTAAnAT AnACATAATT ATAAATGCAA ATGCTAATAG CTGAATACCC 60
 55

GCACTAGGTG CATAATTGT GTATTGAGCA AATAAAGCTA ATACAATGAT TGTAATTCCT 180
 TTAATGACAA ATAAAGGTAA ATTAAATCGT TTAAAGGTT GGTAATTTAA AAATACAATT 240
 5 GCAGCTATAT GCGAGCCACT AACTGCCAGC AAATGATATA TACCTATCTC TTAAACACGT 300
 TCCTTAAATT GCTCATTAAC TTCTTTTACG TCACCAGTAA TCAATGCC 348
 10 (2) INFORMATION FOR SEQ ID NO: 1615:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1615:
 20 GAGCTCCACC GCGGTGTCGC CCGCTCTAGA ACTACTGGAT CCCCCGGGCT GCAGGAATTC 60
 GGCACAGCAT AT 72
 25 (2) INFORMATION FOR SEQ ID NO: 1616:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 63 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1616:
 35 CATCACGTTA AATCATAACG CGTGACGTGC TTTTGCTATT TGTCTCTCGG TATCTCTATA 60
 TCT 63
 (2) INFORMATION FOR SEQ ID NO: 1617:
 40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1617:
 50 ATTGAATTCA AGGGTGGAAAC TCATGAATTG GCTGGAAAAA GGTAATTTA ACTGGATGGT 60
 TGAAGCCATA TATCGGTGCG TTTATTITAT TGGTATTITA AAAATCAACC TCG 113
 55 (2) INFORMATION FOR SEQ ID NO: 1618:

(A) LENGTH: 80 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1618:

10 GTACAATAAA GTGGTAAACA ACATGCCAAT GGAAGGAGG ATTAAGGTT TTTATGTCAT 60
 TCTTAAAGAT AGTAACGGTA 80

(2) INFORMATION FOR SEQ ID NO: 1619:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1619:

25 ATCTTATGTT TTTTTCCTAA AACTTCTGCT ACTTCATTTA TTTGATGTAT GGTAGATAAT 60
 TCTGTTTGGG TACTCATATC AACTTTTCT ATCATATCTG AAATCTCTTT TnTGGCA 117

(2) INFORMATION FOR SEQ ID NO: 1620:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 107 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1620:

40 CGATAAACCC TTCGTAATCA ATCTTTGGTT TGCCAAGTTC GTCGTTGTAA CAGTCTATAT 60
 CGTTAAAAGC TACATGnTTT CCTAAGCCTG TGCCTAATGC TTTACTG 107

(2) INFORMATION FOR SEQ ID NO: 1621:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 63 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1621:

55 AATATCGTGT CTCTGTCAG TGCTGTCAA TCAATTTTGA TCCACCGATT GTCATACGTA 60

(2) INFORMATION FOR SEQ ID NO: 1622:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 75 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1622:

ACCATCTGAC ATCATCAATT ATGAATTAAT GATGATATTA AAAATAAATT TGAAACATTG 60
 CCAATTGATA GTGCC 75

(2) INFORMATION FOR SEQ ID NO: 1623:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 78 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1623:

TACCTGTGTA TCAGCTCTAT TAACAACCTA ACATATGTGA ATAAITTTGCG ATCCTTGTGT 60
 ATAATGCTGT AATTGAC 78

(2) INFORMATION FOR SEQ ID NO: 1624:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 95 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1624:

GCAAGCTTTT GCGGCTTCTG ATGCACCATT AACTTCTGTA ATTAACACA CAAAGTGAAA 60
 CAGGTAGGTA ATGCAAACT GCAACGGACA ATCGA 95

(2) INFORMATION FOR SEQ ID NO: 1625:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

ATTGCGATTAC CACAGTAGTG AATGAGATAT TTGACATGAA AGCTCCTGCA GCTTCTAAAG 60
AAGAGTTAGC AGGTTT 76

5 (2) INFORMATION FOR SEQ ID NO: 1626:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 126 base pairs
(B) TYPE: nucleic acid
10 (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1626:

AAAAGCTAAA AAAGATTATC AGGTGTATCA CAAACTCAA TTTCATTAC CATTATCTC 60
AGTGTAACG TCCTAATTGA GAACTAATCT nAATTGAGAT ATTAGTCATA TAAGGATGGA 120
20 CAAGCA 126

(2) INFORMATION FOR SEQ ID NO: 1627:

(i) SEQUENCE CHARACTERISTICS:
25 (A) LENGTH: 116 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1627:

TGATAGATA GAACATAGTT CAGCACATTG TTGTTGAAA TTGGATATTA CCGCCATTTT 60
35 TTCACAATAT CAATAATACC TGAACGTGTT GGTThTCCA CATTATGATT GTACAT 116

(2) INFORMATION FOR SEQ ID NO: 1628:

(i) SEQUENCE CHARACTERISTICS:
40 (A) LENGTH: 91 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1628:

ATTTTGTCCT ATCTTGAACA AATCCGATTT TTCTCAGACA CTGAATCCAA AGTATTCATG 60
50 TACCATAAAC CATCTGCATG TTGATTTATG C 91

(2) INFORMATION FOR SEQ ID NO: 1629:

(i) SEQUENCE CHARACTERISTICS:
55 (A) LENGTH: 400 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1629:

ACAGAAAGTC AAACAGTAAA AGCGGCAGAA TCAACTCAAG GTCAACACAA TTATAAATCG 60
10 TTAATAACT ACTATAGCAA GCCAAGTATA GAGTTAAAAA ATCTTGATGG TTGTATAGA 120
CAGAAAGTGA CAGATAAAGG AGTATATGTT TGGAAAGGATC GAAAAGATTA TTTGTGTGC 180
TTGCTTGGTA AAGATATTGA AAAATACCCCT CAAGGTGAGC ATGATAAGCA AGATGCATT 240
15 TTAGTCATCG AGGAGGAAAC TGTTAATGGA AGACAATATT CAATTGGTGG TTTAAGTAAG 300
ACAAATAGTA AAGAAATTAG TAAAGAAGTC GATGTTAAAG TAACAAGAAA AATTGATGAA 360
TCATCGGAAA AGTCTAAGA TAGTAAATTT AAAATTACTA 400

20

(2) INFORMATION FOR SEQ ID NO: 1630:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 400 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

25

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1630:

GCTTCCCTTT TCGAAATCTA TAAATCTAAT CCATTGAAGT AAACATAATTA TGATAATTAT 60
TAATTCATA ATTGTnGTTA TCTTTAAATA ATTTGGAAC CTTTCATAAT CTAACCAAAA 120
35 AAAGAAAGTT AGACATGAAA AAAGTATCAT AAATAATGAT GCTAAACTTA AGGCTTGTGC 180
ACCTGGCTTT CGAAGAATGT CTATATTTTC CTTAGTAGTC ATATTACCT ATCTCCTATA 240
CAITGATTTT GTAATAGCAT ATTAAGTATT TAAAGTTATA AGTACTTAGA TTCTTTTCGA 300
40 TTAAGAGTAT AAAAGCCTAA AATTATCTTT ATATTATTAT TTGATGACAA CTTTATGGTC 360
TCTATTGTTT TTTACTTAAA CGCTAAAAAG CTAAACAAAG 400

45

(2) INFORMATION FOR SEQ ID NO: 1631:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1631:

55

TCTAGAGCGA

70

(2) INFORMATION FOR SEQ ID NO: 1632:

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- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 62 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1632:

CAACGAGAT ATTCAAGTGT TCAGTCATTA TTTTGGACTG CTAATGAAAC TGATTCTTGT 60

GG 62

(2) INFORMATION FOR SEQ ID NO: 1633:

20

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 81 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1633:

CTAATGATTA GATTCAAACT AATAAGACT ACAAAAACAA GTTGATAATG GTAAAGATAT 60

TATCCAACCT GACATCTAAA G 81

(2) INFORMATION FOR SEQ ID NO: 1634:

35

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 63 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1634:

AATTTCACCT TTGTCTAGTA ATTATTGT GTAGTGTAAT CATTAATTGT TTAAATATCT 60

AGT 63

(2) INFORMATION FOR SEQ ID NO: 1635:

50

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 579 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1635:

ACCAACTAGC TAAATGCCAG CGCGGnATCC ATCTCAnAAG TGCACAGCAA GACCGTCTTT 60
 5 CCAACTTTTG AACCATGCGG TTCAAAATAT TATCCGGTAT TnAGCTACGG TTTCGGAGG 120
 TTATCCCACT CTTATAGGTA GGTATCCCC AGTGTACTC ACCCGTCCGC CGCTAACATC 180
 cAGAGAAGCA AGCTTCTCGT CCGTTCGCTC GACTTGCATG TATTaGGCac GCCGCCAGCG 240
 10 TTCATCCTGA GCCAGGATCA AACTCTCCAT AAAAATTATG ATGTTTGATT AGCTCATAAA 300
 TACTAAATAA TGTTTGTAAC TAATAGTTAC GTTTTTGGAA TTAACGTTGA CATATTGTCA 360
 15 TTCAGTTTTC AATGTTCAAT AATGTTCAAT CTCCTTTTAT CTACTTCATT TATTTCTTGA 420
 AGTCAATAAC TTTTGAACG ATTACTTTAT TTATCTATA TTGTTTTTAT AGTTATTCCA 480
 ATGGTAAGTn TTACACTTTT GaaATTCTTC TTTAAAAACA ACTGCGTCGT TTTTGaCGeT 540
 20 TTATCaTATT ATCnACTTTG GGaATTAAa GTCAATAAC 579

(2) INFORMATION FOR SEQ ID NO: 1636:

(i) SEQUENCE CHARACTERISTICS:
 25 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1636:

TCGACATTAA GCAACGTTCT TCGCAAAAGG TAGCGAGCGA CACGAGTTAA CTTTGACAGT 60
 35 TTCATTATT 69

(2) INFORMATION FOR SEQ ID NO: 1637:

(i) SEQUENCE CHARACTERISTICS:
 40 (A) LENGTH: 116 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1637:

CTGTGACTTC GTCGCGATGA CCTTCGCCGT TGTTCTCATG GTAAGCTTTA AGTATCGTCG 60
 50 ATGCAGTCnG TTCGCCATGT GCGCCAGCAG ACTGGTTGTA ATGTCGCTC GTCCGT 116

(2) INFORMATION FOR SEQ ID NO: 1638:

(i) SEQUENCE CHARACTERISTICS:
 55 (A) LENGTH: 71 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1638:

ACAACATTTA GGTACTTTCA CGCATATCAC TACAGTCAA CGTGATGATT TACCAATCA 60

10

AATTTCAAA G 71

(2) INFORMATION FOR SEQ ID NO: 1639:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 73 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1639:

GGGTGGCTTT GTGATTAACA TTGACAAGCA CGTGCAACAA CATATTCGAC GCGATAAAGC 60

25

GACATCTAAT ATT 73

(2) INFORMATION FOR SEQ ID NO: 1640:

(i) SEQUENCE CHARACTERISTICS:

30

(A) LENGTH: 400 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1640:

CGCGATCAIT TTCATTICTA ATTAATCTTC CAAGTCCTTG TCTAAAAAGT GTAACGTCAT 60

40

CAGGTAATAC ATATTCCTTG AAAGTTGAAG TGAATTCAGA ATCCATAAGC CAATATTTTG 120

CATTATGCTT GTTCATAAAC GGTAACCTCG CTATCATCAC ACATTTAATA CCATTGCTT 180

45

GAATATCAAA ACCTTCAAAA AATGTTGACG TACCAAGCAG TATGGCCTTA TCAAAATTAT 240

TAAACTGTTG TACTATTTTA TAATTTTGGT TCTGCTGTTG TGTTAATACA ACATAATCTT 300

CAATTCCTGG CAATTCATTT AAGCATATCT TGTACCATAT GCATCATTTT ATAACCTGTA 360

50

AATAAGACTA AACATTTTGA TGACGTTATA GTCGTATATn 400

(2) INFORMATION FOR SEQ ID NO: 1641:

(i) SEQUENCE CHARACTERISTICS:

55

(A) LENGTH: 66 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1641:

ATTGTTGTAC CATGTATACT AACAAATTGTA ATGTCCTATT TCAGTAAACA AAAAGCGAAA 60
GACATT 66

(2) INFORMATION FOR SEQ ID NO: 1642:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 400 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1642:

ATTTCGTCGG GAATAAAATT TGCCATTACA TAGAAATATC TAATAGATAA CGAAAAAGTA 60
TCGTATGIAT TTTTAATATA GTGTAAAATA TTATATGTAA AATAAAATGT AGGTTTTTAG 120
TTAGAGGCAT TATAAGAAAA TTTTGAGTAT AGGTTAGCTT TTAATTATGA ATCTTATTGA 180
AATTTGATTA ATAAAAATAT GATAGGGGAT TAAATGAAA CTAATTTTATA TCGTATTTCT 240
TATTATTATA TGGCTGAATA TATTTTTAGG AAATGAAATC ATCCATACAC TGACTGTTTT 300
AATAACAACA TTGTATATTG TTAATTCACG AnAGGGGATT AAAAATGACA GAGTTGAATA 360
ATATTATAAA CGCGnTGCA ATcTTGTTT GAGTCCGGAA 400

(2) INFORMATION FOR SEQ ID NO: 1643:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 66 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1643:

AACTAGAGGA GGACATCCTA ATGGAAGCAA AACCCGTTGC TAGAACAATA AGAATCGCAC 60
CTCGTA 66

(2) INFORMATION FOR SEQ ID NO: 1644:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 75 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1644:

TATCAATTC ATATGCGATT TGGCCTTGCA ATAATTAGGT CTCACCTTGC CATATCTTTA 60
 CCTAAGCAAT ACTTG 75

(2) INFORMATION FOR SEQ ID NO: 1645:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1645:

CATTCTCTG CATCATAAA ATCAACAATT GTATCATCAA AGTGATCAA AATATTTTAA 60
 TATCCCAATT 70

(2) INFORMATION FOR SEQ ID NO: 1646:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1646:

AGTGACACTT TCGTCCACC ACATCGTAAA GAAGTACTTC AAGCACGTGA AGATGACATC 60
 AAAGAAAAAG TTG 73

(2) INFORMATION FOR SEQ ID NO: 1647:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1647:

CTGTGATTGG TGTGTGATT GTCTTGCTTC CTGGTTGTCC TTCTGTGTTT GCTGCTCTT 60
 CGCCGGGTTG T 71

(2) INFORMATION FOR SEQ ID NO: 1648:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1648:

AACTATAGAA AAATTCGGAA TTATACCAGA AATGGAATAT GAAATGGAAG AGGTTAAACA 60

10

AAACGAGCAA TATATTAGAG AGCAAGAAGA AGCTGGAACA ATAGAGGCGA TAACA 115

(2) INFORMATION FOR SEQ ID NO: 1649:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 59 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1649:

TGTTGTCATG ATCTGAAAAG TCAAAGTCAA TAGAACATTG GCTTGGGCTT TTTATTGG 59

25

(2) INFORMATION FOR SEQ ID NO: 1650:

(i) SEQUENCE CHARACTERISTICS:

30

(A) LENGTH: 125 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1650:

35

ACCGATAATA GTACAGGCA TAATGnAACA ACTTGGCATG CACCCITTTT ACCTTCCTTT 60

ATCTCTGCAT GATTGTCTATG TTCATCATGG TTTGGCTTGC ATTAATAGAG AGGGTTGAGC 120

40

CAGAA 125

(2) INFORMATION FOR SEQ ID NO: 1651:

(i) SEQUENCE CHARACTERISTICS:

45

(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1651:

TGATTAACGC GAATGCCACT TTTACTACCA ATGTTCCCAA AGCTGCTTCT GACAAACGCC 60

55

ATTGTACTCT G 71

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1652:

TCATTACATG CACCATAAAT ACAGTATGAA CGTATTGAAA TGGGCATTAC ATGATACAGA 60

(2) INFORMATION FOR SEQ ID NO: 1653:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1653:

TTAATTGAAA CAATTGACAA ATGCAATTTG ACGCCAAACT TTGAACITTG AATGGATTAT 60

CACATTATGA TTGTCATCC ATGGAACAAT AGCATGGACG TATTACATTC TGGATTATCA 120

AGC 123

(2) INFORMATION FOR SEQ ID NO: 1654:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1654:

CTATGACGTC GCATGCACGC GTAACITGGG CCCCTCGAGG GATCCTCTAG AGCGGCCGCC 60

CITTTTTTTT TTTTTT 76

(2) INFORMATION FOR SEQ ID NO: 1655:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 145 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1655:

	TTTTAAATTT TCGTGAAATC GGAAATGTAC GATTAGTTAT TAAGCGTTAG AATGTGTGAT	120
	ATGTGAACCT GGTATTGACG GCGCT	145
5	(2) INFORMATION FOR SEQ ID NO: 1656:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1656:	
	TTTAGAATTC CAATACGCTA TTGCCAGCGA TTTAGCCACT TGTGGGTAAT GATATTGAAG	60
	GTGTTAGTCA AGT	73
20	(2) INFORMATION FOR SEQ ID NO: 1657:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1657:	
	CTTCTGAAAA GTAGTAATGT AACCTATTGG ATGCGAATGA ATCCCCAAAT TTAGTGGACG	60
	TATGTGGCTT CATCTTCAGA ACCTGTATCT GGT	93
35	(2) INFORMATION FOR SEQ ID NO: 1658:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 58 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1658:	
	AAGTTAACAT GCAAGTTGAC GATGTAATGA CTCAAAAAGA GTGGAACAA AACACGA	58
	(2) INFORMATION FOR SEQ ID NO: 1659:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
55	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1659:

TTAATCCCAC AAACAAATGT ATGAAATTGA GTCAGTGATA TTAAATATGG GCTTGAAAGT 60
 5 GTCTA 65

(2) INFORMATION FOR SEQ ID NO: 1660:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 91 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1660:

TGCATTTTGT TAAGAACGCA AAGCATTGTA AATTAGTTT TATAAATTAG GATATTATCA 60
 20 TGTGTATTGA AAACAATGAA GTGTGCTATG A 91

(2) INFORMATION FOR SEQ ID NO: 1661:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1661:

ACATATCTGT CCACACAACA AGGACCATTT GTCTGAAGGG ACAGTGAGTG GGGAAATATGT 60

(2) INFORMATION FOR SEQ ID NO: 1662:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1662:

TGGGGTTTTA ACCAGGGGAC CTAAAACCAG CCCCCATTTT CCAAGTTTGG ACCCCAAATT 60
 45 CCChAAATTT AAAAAAATTT TGTTGGGGT CTAAGTTGGG CCGGTGCCTT CCTGCCTAAA 120
 50 TTTAGCCCAT GTCTAACATA GTACTTTGGG AACGTAAAAG TTAAATTTA 169

(2) INFORMATION FOR SEQ ID NO: 1663:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 677 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1663:

TGGCACAATT GCACCAATTA AATGAATAAC TTTATCATTT TTATATACAG GTACAACAAT 60
 CGCTCTTTTT ACGAACTCAG ACTGGCGTAA TTGTGTTTCA ATTTCTTCTA ATTCCATTCT 120
 TAGGCCATTC AATTGGATTT GGAAATCAAT ACGACCTTGA ATGAACCATT GACCATTTTC 180
 AAACCTCGCT TTATCACCAG TGTGATATGT ACGAATACCG TCATCGAAAT TAAATACITC 240
 AGCTGTTTTT TGGTCATTTT TTAAGTATCC TAAACTTACA CTTTGACCTT CGATAACAAG 300
 TTCACCTTCA TCTGTAGTAG ATAATCTTGC GCCTGCTCTT TCAACGCCAA CAGGTAATGT 360
 CGGATATTGA TCTAAGATTT CTTGTGTAAT TTGAATACTT GTAAGTGCTA CCGTAGCTTC 420
 AGTTGGACCA TATGTGTGT AAATCGTGC ACTTGGGAAA CGGTTTACTA ACGCTTTTGC 480
 TGCTCTGTGA GGTAGAAATTT CACCACAGAA GAAGAATTCG TTAAGACTAC CATATTGTTT 540
 TTCATTAGC GTTGGTAATA ATAAACACAT TTCCATAAAT GATGGTGTG ATACCCAAAT 600
 GTTAATCGGT GTTGCTGTTA GCATTTTCATT TAATAATTAA GGTTTAATTA TCATGTTTTT 660
 ATCTACAAGA nTnAAnG 677

(2) INFORMATION FOR SEQ ID NO: 1664:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1664:

GTTACAACAA TAGTGGTATA AAACGGGAGC AATTAGAGAT CAATATATGA TTATTAAGAG 60
 CA 62

(2) INFORMATION FOR SEQ ID NO: 1665:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 342 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1665:

55

GTTTACGCAA ATGATAGCTC GGTAACAT GAGCAACATG TTGAAGCCAA TTTGGAAATG 120
 TGTTTATCGG AAACCAACAAT CCACCTAATA CTGCTAAACC AATTGTTACG ATATTAGCTA 180
 5 AAGCACTGTG TTTTGAATA TCATTTAACA AAGAACCATA ATATGCCAAA AGTTATTAAAT 240
 AGAGAGCGCAC CTAACCATAA AAATATTCTT GACTCTAACC ATTGAACATGC ACTCATTGCA 300
 ACACCTTTAT AAAAATGTCC AACCATAAAA ATAACATAA TC 342
 10 (2) INFORMATION FOR SEQ ID NO: 1666:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102 base pairs
 (B) TYPE: nucleic acid
 15 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1666:
 20 GTCCAAGAAT TCAAAAACGT TTTCAACTTC GGCCAAAGCC CAATTtntCTT TTGTGGTTTA 60
 ACTTTTTAAT TTTGAACGTT TTAGGCATA AAAAAAAAAA GG 102
 25 (2) INFORMATION FOR SEQ ID NO: 1667:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 122 base pairs
 (B) TYPE: nucleic acid
 30 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1667:
 35 TTGATAGTAG CCATAATCAT ACCACTTAAA TAATATGTTT GATCATCGGC ATAATTTTAA 60
 TTTATTGTC: GTTCGCAATA TTTTGGCAT TATCATAATT ACCACTAGTC ATATCATCTT 120
 40 TG 122
 (2) INFORMATION FOR SEQ ID NO: 1668:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57 base pairs
 45 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1668:
 50 AGAGATGAAA TTAATAATCGC AATTGAAAAT TTCAATCAC GATGAGAGTG GGACAGA 57
 55

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1669:

AACTACTGCC AATATTAAATA GCATTGGTAC ATCTTAGAGG CATTGAATTC CTTACTCAGA
 CTCATAATGC

(2) INFORMATION FOR SEQ ID NO: 1670:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1670:

TGTGTCGATA TAAATCCATT CGATTGGACT CCACACGTTA CACCGATACC TTCTTTACCA
 GCCCGACCCG TAC

(2) INFORMATION FOR SEQ ID NO: 1671:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 140 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1671:

GAAGAATTGT ACTGTTAAAG TGA CTCTAAA CTATGCGGA AATAACAGTG AAATCACCAA
 TTAGACTAGC GACACTGAAG TCATTAAAAA CAGACATTTG TAGTGGTGCh CTTATCACCG
 CAAATACAAG AGAGTTTCTC

(2) INFORMATION FOR SEQ ID NO: 1672:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

AACAACGTTT ACTATTGGCA CAGAACGGTT GGTACTTAGT CTAATACCAT TGTCATCAA 59

(2) INFORMATION FOR SEQ ID NO: 1673:

5

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 124 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1673:

15

ATCTCTTTGA CTGAAGGAT TGGATTAA TCTTGGTGAT TTGGGCCGTG AAATATTTC 60

AGAAAATTC TCAGACGTAT TAGTATAATT GTAACGnTAC ATTCTAATAT ACCTTCTTC 120

GATG 124

20

(2) INFORMATION FOR SEQ ID NO: 1674:

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- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 109 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1674:

CACCACCACC ACACACAC ACACAAACAC ACAACCCCC CACACACAA CCACACCACC 60

AACACACCAA CACAnCACAA AAACCCACCA CACACACCAC ACACCAACC 109

35

(2) INFORMATION FOR SEQ ID NO: 1675:

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- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 101 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1675:

TnGTCAACTG ATTTAIGAAA TGGCAGACCA TATGGCGTCA AAGSTTCTTA ATCGTTAAGC 60

CAGACCACTG GAGGACCATT AGATGCAGCG TTGCTTCAA G 101

50

(2) INFORMATION FOR SEQ ID NO: 1676:

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- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1676:

TTTTTAAAT TTGAAATTT TAGACCTTAT TTCACGTGCG ATTTAATCGA TGTGTTAATA 60
 5 AAACAATACT GGCATTCAAC ATGTAATCCG ATAATAAAAT AAGGTTGCAA TTATGTTATT 120
 GCATATTTTG TTTATTACTT AGAATAATAC GATGGTTAAG ATGAARTATA TGACAAAGAT 180
 10 AAATAATGAC ATTAAATCA AGATGTTTAC GCCTTTTAGA TCTTTTITAA GCATTTTAAA 240
 TCTGTCTACT TCKACATTAC CGACTAAGAG TAATAAGACG ATAAATACCC ACCAATTsTC 300
 TTTTGAAAA CTCATCGTCG TTAATGCTAA GACGAATAAT AACAACACAC CCATAATAAT 360
 15 TCTCAAAATG CGAGTAAATA CAACTTCCAT TTTAAAAATA 400

(2) INFORMATION FOR SEQ ID NO: 1677:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1677:

TCTTACTCAT GCATATGAGT GCAAGGGCCT GAGCATTCAT CAGCAAGATT AGAGCGATT 60
 TTAC 64

(2) INFORMATION FOR SEQ ID NO: 1678:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 65 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1678:

ACAGCTGATT TATTAAATGA TACTAAGTCC AAAGGCATGC GCATTATATC AGTTGGTACA 60
 TTTCA 65

(2) INFORMATION FOR SEQ ID NO: 1679:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 362 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1679:

AGCGCCACCA ACTGACGAAT TAGGTGGTAG TTGGACACTA TGGAAAAATT TAGCGGACA 60
 AAGTCCTGAA TTGGTAATC CTGATAAGTT TTGCCAAAAT ATTCTAnAA AAAGTTGGTT 120
 TGTTTCAGCA ACTTCTACAA CAAACAATAA AGAGATTATC GATACAATAG AAAGTATTTG 180
 TAAACGTGAC CCATTGGCA GCGAAAACAG TTACAGGCGG TATTATTACA ATCAATGATT 240
 CTGcATGGCA AATGAGTTTT AACAATCAATC GTGCAGCAAC AGTTTGAAG ACCAACCTGG 300
 AAAATGGAAA TATCTACATG GGGTTTGATG CCTTATGATT CnGgngTAAA CGGCGGTTGA 360
 TG 362

(2) INFORMATION FOR SEQ ID NO: 1680:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 69 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1680:

AGATACTTCA GATTTAGCAT CATGAAGCAA CTTTAAAGC AATCGCTGAC GCTGGTATTC 60
 AGCCCCGAGG 69

(2) INFORMATION FOR SEQ ID NO: 1681:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 56 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1681:

TAACCATTC TTTGACGTT TTATGTTGTT TTAAGAAATA AATACCAGIT AATGTA 56

(2) INFORMATION FOR SEQ ID NO: 1682:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 56 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1682:

(2) INFORMATION FOR SEQ ID NO: 1683:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1683:

CCCCAACACA ACAACAACA CACCCACCAC CCAACCCAC CACACCCACC CACCACCCCA 60
 ACCCACCACA ACACCACNCA CCAACACACA CCACACAACA ACCCCACAC 109

(2) INFORMATION FOR SEQ ID NO: 1684:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1684:

ATTATGTTTCG CGATAATTTA AGTAAAAGAA GCACAGATAT TGAATTTGAT AGGAGTAATT 60
 GT 62

(2) INFORMATION FOR SEQ ID NO: 1685:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1685:

CATAAGGTAC TTAAATTAAAG GCATATCTGC TGTCTAGCAG TGCATAAAT CATTAGA 57

(2) INFORMATION FOR SEQ ID NO: 1686:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1686:

(2) INFORMATION FOR SEQ ID NO: 1687:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 110 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1687:

CTTTATAGTA TATTGCTTTT TGTTTTCTT TTTCGTCATA TTCACCTTTT AAATAGATAC 60
 CTGCAACACT AATTAATATG ATTAACATAA TACTAGTTAA TATTAATATT 110

(2) INFORMATION FOR SEQ ID NO: 1688:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 214 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1688:

AATTACTAGT CTGCTTGTC AAAGATTATT TATATTCTAG CTCAACATTA ATTTCTTTGA 60
 TTTTGGTACC ATCTATCGTG TCACCCATGC GATGCGGTG TAGTTTTTTT GTAAGTTCGA 120
 AAGTATAAAA CTTATCATCT TCCATTTTAA CTACAATTTT ACCTTTTCTA TTATTAACAG 180
 CACCATATAA TTTTCTCTCT TCCATCAATT TTTT 214

(2) INFORMATION FOR SEQ ID NO: 1689:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1689:

GCTAGTGTGA ACGTGCTTTT TCACCACCAG ATAAATCATA ATATCTTTTA ACATCTCTG 59

(2) INFORMATION FOR SEQ ID NO: 1690:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1690:

CCAAACTTTA TAATATGAAA TGCTTGGTAA TTACAAAGAT AAAATCATAC TCAGG 55

5 (2) INFORMATION FOR SEQ ID NO: 1691:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 64 base pairs

(B) TYPE: nucleic acid

10 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1691:

TAGACAGCAA TCCATTGCTA TAGGGGTGGA TATCTCATTT GCGTTTGGAG CTGTGCTTGT 60

TATG 64

20 (2) INFORMATION FOR SEQ ID NO: 1692:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 57 base pairs

(B) TYPE: nucleic acid

25 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1692:

TGCATGGGAT TGCAGCTAAG AGAATCATAA AAATATATTA CTTTAATAAG TGTAAGTA 57

(2) INFORMATION FOR SEQ ID NO: 1693:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

40 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1693:

CGATGTGTAC GTCTCACCTG ATTTGCGCAG GTAAGCTAGT GCATATTCAG CACCGCTACT 60

CGCCCGCCT AGAC 74

(2) INFORMATION FOR SEQ ID NO: 1694:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

55 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1694:

AACATTTTCAG ATGTTGATAG CTATAGATTT AGGCGCTATT CACCAngTCT ACATGCAATA 60
 CGTACGTTAT AATGCACTGC AACGAATCGC GCGTTATGAG TTGGTAATTG TTGTTCAATA 120
 TTGGGTGTAT AGTTTTCACG GTGGTTACAA GCAACTACCT AA 162

(2) INFORMATION FOR SEQ ID NO: 1695:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 55 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1695:

AATTATCTCT ACACCTTTTC TTTCACATAA TTGACGCAAT ATAATCCCTA TATCT 55

(2) INFORMATION FOR SEQ ID NO: 1696:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 56 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1696:

ATGCAACGTT GGCATTGGGA AATGGTCCTG CCTAAATTAA CACGCAATAA AATGTG 56

(2) INFORMATION FOR SEQ ID NO: 1697:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 57 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1697:

ACTGTGTAGA AGATGCTATT ATTGTAAAC ATAGTTTAA TTTTATTTTC TGATATA 57

(2) INFORMATION FOR SEQ ID NO: 1698:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1698:

AAAATTITTC CCCGGGAACC CGGTTTTTTA AACCCCCCGT TTTAAAAAAA TTTGGGGGGG 60
 5 CCCAAAATTT CCCAAAAAAA NAAAAAATTT TTTTTTCCC GGGGAAAAA 109

(2) INFORMATION FOR SEQ ID NO: 1699:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1699:

GTGTTAAGCT GGATTATATC AAGGAGCGG TCAGGTACAG TCCACACGCA CAGCGCACAG 60
 20 AAGTATCACA TCCAGTAAAC AAGGCTAGTA CAGCATTGCA 100

(2) INFORMATION FOR SEQ ID NO: 1700:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1700:

AAGGTTAAAT GAATTAGGTT GATCAATGCT CTATACTCAT TGCTAAGTCA ACGCACCTTT 60
 35 ACCACCTTTT CCCAACTCAG TAAGGCATTC GACGTATTC TTAGCCAAGn TTACATATCT 120
 ACTCTGCAC 129

(2) INFORMATION FOR SEQ ID NO: 1701:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1701:

CAAGAGGAAC AACTCGGTAC TCGCATCAG CAGAGATGGC GAAATCACAC TTAGAAGACA 60
 AGG 63

(2) INFORMATION FOR SEQ ID NO: 1702:

(A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1702:

10	TATTTAATAA ATCTCAATA CCTGTTCAT CAGTTGTTG ATAAATAAGA CCTCTCCATT	60
	TTAAATCTTC AATTAATACA TTGTCATTA TTATTCCTC CTATTATAA TTATTTATTG	120
	AATACTTGT AAAATACTTT AAAGKTTTT GAACGTAAAA AAAACCCCTA CAACAAATAT	180
15	GTAAGGGCGC GATTGCAGT TACCACCAA CTAAACATA ATCATAAGAT AATGTTCACT	240
	CTATTAAATGA TAGTTCATT AATAAACGTA GGACATGTTA GTTATAAAGG TGTATTCATA	300
	TTATTAAAAA CACTAGTCA CAGCGACCAC TAGCTCTCTG ATGATTTCAA ATAATATTAC	360
20	TTGTCTTTTT ATCTATTCT GTATGCATTT TCCCTAATTA	400

(2) INFORMATION FOR SEQ ID NO: 1703:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 208 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1703:

	TCAATATTGA TATCGAAACG CTTGCAGAT TGATATAAAT TATCAGAATC AAGTAATTCA	60
35	TTTATTTTCT TTGGTGAAG TACTTGGAAT ATACTATACT GATGAAAACT TAAAAATGAA	120
	ATGAAGTATG GAAGTTGTTG CTTGGGTAA GCAAAATTC TAATACATAC TGATTAAACT	180
40	GTTTGTTTAT TGAATATGC AACGCATC	208

(2) INFORMATION FOR SEQ ID NO: 1704:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 67 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1704:

	AAGCGATGT AATTATTAT GCAACACCTG TTCTAATGCA CAAAGAAATA TCTAGCGAG	60
55	CTTAG	67

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 54 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1705:
CCAAGTTGCA TGTTATTTTA AGCTGACTTT CCACCAACTT CTGAGTTTGT GGCC
(2) INFORMATION FOR SEQ ID NO: 1706:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 61 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1706:
CAACTACACG AAAGGGTAGT GCTTCAAGAT AATAACGTCC AATTATTAGG AACTGTGGCG
A
(2) INFORMATION FOR SEQ ID NO: 1707:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 54 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1707:
ACCATTCCAA ATGAACCTAA ACCACTTGAT ACGTTGACGA CAACAGTTG TTCA
(2) INFORMATION FOR SEQ ID NO: 1708:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 59 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1708:
AAATTTGAAT AACTGTACAC ATTTTTTTGA TCATAGTCTA TATACTTTGT GAATTAATT
(2) INFORMATION FOR SEQ ID NO: 1709:

(A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1709:

10 GCACAATAGC CAATTAGATG GGGCCGGTGC GGTAACATT TGCTTCATTC CTGCATTAT 59

(2) INFORMATION FOR SEQ ID NO: 1710:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1710:

20 TTACAATTCA ATCAAGTTCT TCATTATCAG ACGAAGAAAT CCACCGTATG GTAAA 55

(2) INFORMATION FOR SEQ ID NO: 1711:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1711:

35 TTCTGCTTA TTGTCATTCG ATATCGAATT ATTAGAAAGT GCAGATTTCG CATCAG 56

(2) INFORMATION FOR SEQ ID NO: 1712:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1712:

50 TAAACCTTTA GGATTGCTGG CAATAGTAGT GCAGTTGGCT GGACTTGTC TGTCC 55

(2) INFORMATION FOR SEQ ID NO: 1713:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 207 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1713:

5 CAAGAGGATT CGTGCAnTGA ATTCAATGGAG ATATTAGAT CTTCCTCTGG AGAGAAAATA 60
 AAAAGAAGAA AAGAGTAACC TTAGATTGC TGGATnTGTG CAGTGGCTGC TTGCGTGCCT 120
 TTAGGTGGCA TAAGGAGGCT ATACGCAGAC AACCAACGTC CCGGGGTTTT ATTGTACACT 180
 10 GTGTAGGACG CAGACTTTAT GTGGTTG 207

(2) INFORMATION FOR SEQ ID NO: 1714:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 84 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1714:

TTGTTATCGA CTGTCGTAT ATTTTGACTG TTTTGACTGT TGTTCCGTA GCAATACTAT 60
 25 CTCCTAAGCC TTTCATTGGC ATTG 84

(2) INFORMATION FOR SEQ ID NO: 1715:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1715:

35 GTTTGAATTG ACTGACTTCG TTTTACCGCG TGTTTAATAT TGTATACAT ATAT 54

(2) INFORMATION FOR SEQ ID NO: 1716:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1716:

50 GAAGCCTGTC AGTGGATCAA ATTATTGAAG ATAACCTGGG TGGCATTITT GGAAAGTCCA 60
 AATGCTGGGA ATGGTCA 77

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1717:

GGGCCCTTTT TTTCCAAAAA AAAAAACCC CCCCAACCC AATTITGGnC CCCCTTCCCC 60
 TTTAAAAATT TAAAAATTGG GCCAAAAGGC CCCCCAAAAA AAAACCCCA ATTGGAATTG 120
 GAAACCAATT GGAACCAATT CCATTGAACC AGGA 154

(2) INFORMATION FOR SEQ ID NO: 1718:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 120 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1718:

ATTGCTTACA CTGCCACTTT ATTTTCATTA ACCATTTCAC AAATGTGTC ATCAITCAAC 60
 ATGAACATCA ATTGTTCAAT TACATGACA CTGATGCCT AAnCACGCAC CTTTGCACA 120

(2) INFORMATION FOR SEQ ID NO: 1719:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1719:

TTCAITTTGTT TGTAAGAGTG GCATTCTTAT GTCTTAAAG TGACGAACT TCAC 54

(2) INFORMATION FOR SEQ ID NO: 1720:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1720:

(2) INFORMATION FOR SEQ ID NO: 1721:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1721:

TTTGATTAT AAATGACAT GTAAGTACGA GGCAGCTGTA CCGATATAT AATTGCTAAG 60
 AGTTAGGGCT G 71

(2) INFORMATION FOR SEQ ID NO: 1722:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 325 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1722:

TTTTATCTTT ATTACTAAAA CCAACTGCAC CAAAGTTTGC AGTCATTACC ACACGTTTAA 60
 CACCGCATG TTCTGCAGCT CTAAAAATAC GTTGATACC TTCAATTGCA GGCTTCGCCA 120
 TCACCTCTGC ATCGTCTGTT TTACCGAAAA ACACCGGAGA TGCTACACTC AAGACATACT 180
 TGCAATCTTT CATTGCTTCA TCCCAATGTT CATCTTGTA TAAATCCGCT TCGACAAACA 240
 TTAATCGCT CTGTGGAAT GCCCATGTCT TGCATTGTT TAATTACTTT ATCAGCTTTA 300
 CTTAAATCAA GATCGTCGT TTGTA 325

(2) INFORMATION FOR SEQ ID NO: 1723:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1723:

CAGTATTGCA GTCAGACAA TGTGATGACT AAATTATCCA AAGTATGAAT TCCATGCGGC 60
 ATTAATCCTA G 71

(2) INFORMATION FOR SEQ ID NO: 1724:

(A) LENGTH: 53 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1724:

10 TTGCAACGAT ATTAGGCTAT CTAGTCGGCA TATTGTAAA ACAAGATCCA ATT 53

(2) INFORMATION FOR SEQ ID NO: 1725:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1725:

ATCTATTTCAT CTTCGTACAC GGACAGGAAA TGAGTCCAGT AGATGCACAT TGGGAATTAA 60

25 TCGAAGCTAG C 71

(2) INFORMATION FOR SEQ ID NO: 1726:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1726:

CATCTTGCGAG GTCTACATTA TAAAAATGTA AGTTTCTTAC GATAACAATT GGGAAACTCA 60

40 GGGGCATCTC C 71

(2) INFORMATION FOR SEQ ID NO: 1727:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 235 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1727:

TTCTTTTTTA AAAATCCCC ATTCTTTTT AAATTCTTT CCGCTGGAT TAAATGGATT 60

55 TTAATAATTC CACCCCACT TAAATTTAAA TGGCTTGTTG AAAATTAACG GGATTGGCAT 120

TCCAGCTTAA ATGGTTTTTT TGGAGGCTTC CACGTTAAAA ATGGCGGGTG GCTTT

235

(2) INFORMATION FOR SEQ ID NO: 1728:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1728:

TAGAGTGGCT ATAAAGCTAA GTTCAATTGA CCAATTACA ACAGTTATT GAGGACAATA

60

A

61

(2) INFORMATION FOR SEQ ID NO: 1729:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1729:

ATCACCAAGA AGTTCTAATG CTTGGTATAA ACGTTGAATA CGACGTTGCG TATT

54

(2) INFORMATION FOR SEQ ID NO: 1730:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1730:

CGTCCCGAAG CGTTGGAGGC GGGAAACATCC AGAGTAATTG GCACAGATTA TGACCATAT

59

(2) INFORMATION FOR SEQ ID NO: 1731:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1731:

(2) INFORMATION FOR SEQ ID NO: 1732:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1732:

TATGTGGTGT TCAATGCAGT GGTCATTATG GTGCATCTTA CCAGATTCGG CATTCTTATT 60
 ATAACTATAC TTGTAATAAA TGGCGACATG CAGACACGnC AATAC 105

(2) INFORMATION FOR SEQ ID NO: 1733:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1733:

TTTACGTTCC ATAGCAAAGT GATACAAACG TCAGCATCAA TGTAAGGCAT AGATCATAGT 60

(2) INFORMATION FOR SEQ ID NO: 1734:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1734:

TTCCATCATA CATTGGCGTT TTACTTTTCT TCTGGTATGA TCAATATTC ACATAA 56

(2) INFORMATION FOR SEQ ID NO: 1735:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1735:

AAATGGGGAT GAAACAGTTA GTGTACAGGT GAAAGCTTAA CAGCAGCTAC AATTGCA 57

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1736:
 GATTTGCAAT TAAACTTAAA TGTAATTTTT CGGAATGTGT ATTTGGTTTA CTTAAAGTAA
 A

(2) INFORMATION FOR SEQ ID NO: 1737:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1737:
 AAAGAAGCTA AAGAAAAAGT TGATAAAACA GCAAAAGTGA TTATTAGCTA CAGCATT

(2) INFORMATION FOR SEQ ID NO: 1738:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1738:
 CAATAATATC GCTAAAACCG CCATTGTGAC CAAATGAATT TGATAATGCT GCAG

(2) INFORMATION FOR SEQ ID NO: 1739:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1739:
 TAGAGCCCAA CCGGCAACCC ATCCATGGAA ATTCACCAAA ATAATACATT GACCCCAA

(2) INFORMATION FOR SEQ ID NO: 1740:

(A) LENGTH: 136 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1740:

10 CCTTTTGGGn AATTTAAGGG GGTTCACAAC CAAATTCCTT CAAATTTT TGGGTAAAA 60
 AAACCCGGCC CAAAAATT TA AGGAATTG GAAAAGGT TGGTCCCTT TTTTCCCAA 120
 GGCCCAAAAT TTGGAA 136

15

(2) INFORMATION FOR SEQ ID NO: 1741:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1741:

25

CATTCAACCA ACGACTGACA ACAGAACATT TAAGAGTCTA GGACATTGAT TGA 53

(2) INFORMATION FOR SEQ ID NO: 1742:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1742:

40 GCTCGTCTGA TTCAGTCACA AAATTGTCTT GTTATACTTG TCACCATCA TC 52

(2) INFORMATION FOR SEQ ID NO: 1743:

45

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1743:

TGTTATTAA AGAGGCTCAA GCITTCATAG AAAACATGTA TAGAGAGTGT CAT 53

(2) INFORMATION FOR SEQ ID NO: 1744:

55

(A) LENGTH: 94 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1744:

10 TCTGAGTTAA AGACGTCTCA CTAAAGCTT TAGCAATCC AACAAATCAGA TATCTTCACA 60
 CGTGTTATAT GTGTCCATTA ATATATCCTG TGGC 94

(2) INFORMATION FOR SEQ ID NO: 1745:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 212 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1745:

25 GGAAAAAAnn TTTTAAAAA AAGGGAAAAG GGAATTGGGG TTCCCGGCCC CTTTTAAAG 60
 CCCCCAAATT AAGGAAATTT TAAATTTTGG GGAAGGGGAT TTCCACCGG TTAATAAACC 120
 GCCGATTTTG AGGGGGTTGA ATTAATTGGC CAAATTTAA AACCTGGAT GCTGGGTCCA 180
 30 ATTTTITACC GGGACCAATT GTCCTGCAT GA 212

(2) INFORMATION FOR SEQ ID NO: 1746:

35

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1746:

TATCTTCOGA TGAAGAACAA GATGCACAAG AAGTACGCCA ATGATTTTAAG AAAGTGGT 58

45

(2) INFORMATION FOR SEQ ID NO: 1747:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1747:

55

AAAATTAAGn CCTTTTITAA CCTTCCCTT CCCCAATTGG GGCCT

105

(2) INFORMATION FOR SEQ ID NO: 1748:

5

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 52 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1748:

15

ATGCGCTATT ACTTTGATTG ATGTCCAAGT TTCCTATCAC ACAACTTAAT TT

52

(2) INFORMATION FOR SEQ ID NO: 1749:

20

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 95 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1749:

AAAGCATCAT CCGAACTCCA ATGATTATAC TCCCTAGATA TTATTATGTG ATGCTTTGAG

60

30

CATTAATTAG AGATGGGAGC ATTCCATGAA AGATA

95

(2) INFORMATION FOR SEQ ID NO: 1750:

35

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 63 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1750:

TTGACACATC TACTCACATT AAAAGTAGAT GAAGCGTTGA GATTAACATT TCCACATTTA

60

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CAA

63

(2) INFORMATION FOR SEQ ID NO: 1751:

50

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 116 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

55

TCGATATTG AGACACGCTG CTGTAATAAA ACATCCTATA AAGTATATAC CAAGATCTAC 60
 CAATATAAAC AGCGGCTATA TGATATAAAT GCTCAGACAC ACCCnCTGCG ATCCAT 116

5 (2) INFORMATION FOR SEQ ID NO: 1752:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 114 base pairs
 (B) TYPE: nucleic acid
 10 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1752:

15 TATGATTAAG CTTAGTCAG ATTGATTGA TTAACAACG CTTCACTACA TTAAAAATAG 60
 GGCACTCGCA CATATAGTTG TATCAATAGC CTTTATCAAT TTTTGGGAA GGTT 114

20 (2) INFORMATION FOR SEQ ID NO: 1753:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52 base pairs
 (B) TYPE: nucleic acid
 25 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1753:

30 AACTTCAAAAT GTGCCAAGTG TTGAATCACA TCAAAATCAT TTTTATTAA CG 52

(2) INFORMATION FOR SEQ ID NO: 1754:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 75 base pairs
 (B) TYPE: nucleic acid
 35 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1754:

40 ACTAATCCCT TGGGTGTTT CAATCAATTG CATTATTAGT GGCCATTGTG TTGATATAAC 60
 45 TGACAAGCTT TAACC 75

(2) INFORMATION FOR SEQ ID NO: 1755:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53 base pairs
 50 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1755:

GTGAACAAGG GTAGATGTAA ATAGTTGATG CATGTGTACA CATCATAACA AAA 53

(2) INFORMATION FOR SEQ ID NO: 1756:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1756:

TTATTGGGC AGGCAAATAC CCTTAATATA TTCAAATCAT GTTAATATCA TTGCTATTGC 60

TAAACC 66

(2) INFORMATION FOR SEQ ID NO: 1757:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 57 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1757:

ATTAATCGGA GCACTTGGGT TCGCAATTTA TGCTGAAATG GATCATTCTA CATCATC 57

(2) INFORMATION FOR SEQ ID NO: 1758:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 399 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1758:

CGAACAATAA CTCTAAGTAT CCAACAAATG CTGCAAGTGT ACCTACTGTG ATTGATCCAG 60

AAATAGCAAG ATATGCACCA ACACCGATGA CAATAATTGG TCCAATATCT GTAACGTAT 120

TAAATGCGCG AAAGGAATAG GCATTCCATC TTGTATGTTT CAACGCACGT GTTAGGAAAT 180

TAGTATTCTT TTTATCAAAG TTTTTCGCTT CATTGTCTTC AATCGCAAAA CTTTTAACGA 240

CTGAAATACC TTGAACACGT TCATGCAAGA ATCCTTGAAC CTCAGCTAAT GCTTGAGATC 300

TTTCAGTGCT CAATTTTCTT AATCTTCCAA AGAAAACGTA CACCGTTAAA ATGTAAAAATG 360

(2) INFORMATION FOR SEQ ID NO: 1759:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1759:

nATTATGTCA TGCTAGGTCA CTTCATCAT CCATTAGTA TAGAAGACGA CAAAATTAA 60
 TTATATGGG CTCCTTGATT GGCAGTATTC ATTTCGGGA AGCGGGGTCC AGGCTTAAAG 120
 GGTATTAGAC GTGGTTACC 139

(2) INFORMATION FOR SEQ ID NO: 1760:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1760:

TCGCCCCCTCC AGGCTATTAT TTCATCTATA TCATTGTCAT CAGTTAAATT CAGCCTCGAC 60
 ATTTCCATTTC CAATAGACTG TTCATTCAAT TCTAAGTCAT TATTGTAAGT TTCTAGTTGA 120
 TTITCATAAT GATTTAGATT ATTTTGCTCA ATTAACCTTC TTTGAGACAA TTGCATTAAC 180
 TTATCTTCAA TCTCCTTTGA GAGTCTTGA TGCTGATTCA CATCTTGAAC ATACTTCTTA 240
 TAATCCACCT CAAAATTAGT GATATTATTA TATnTCGAGA GTGTTTCAA TTCAGTGATG 300
 AGATCTCGAC ATAAT 315

(2) INFORMATION FOR SEQ ID NO: 1761:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1761:

TAAATCCTCG AGATTCTTAA TAGGGTAGAT ATCTAACGTT TTCGCAAAGC TCTTTTGTAT 60
 TTGTTCTTCT TTGAACTCT CAATGATCTT ATTATCACA TCACAAGATG TAACAAAGAT 120

CCATCCTCAT CATTATCAT CTTCATCTAC CTTCGCGGCT GGAAATTCAA aGAaTCTATT 240
 ACTGACAAAT CGCTTTTTC ACCTTTIGAA AAGTCAATTT CCAACTTTTT ATAACCCACA 300
 5 GAACTTCCTT TCAAATTACC ATCAATATGC ATTTTAAATA CCGGTGCTTT ATCAGTAGGA 360
 ATATTATAAC GACTTCTTAA TTGCTTAACA TTTTCATCT 399

(2) INFORMATION FOR SEQ ID NO: 1762:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 224 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 15 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1762:

20 GTATAGAAGA CGACAAATTT AAATATAGTG GTCCTTATT GCAGTATTCA TTTTCGGAAG 60
 CGGGTCAAGC TAAAGGGTAT AGACGTGTAC AATTAATGAT GGCATTATTA ACGATGTATT 120
 TATTCCTCTT AAGCCACTTA GACAATTGGn AATTATCTCA GCGGAATATA ATGATGTTAT 180
 25 TAATGAAAAA GTTCATGTGA AAAATAAAGA TAATTATnTA CATT 224

(2) INFORMATION FOR SEQ ID NO: 1763:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 30 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1763:

AGCAACCAAC GCCAGATAAA GCAGAAGATA ACGCATTTC CCACATCACC ATAT 54

(2) INFORMATION FOR SEQ ID NO: 1764:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 45 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1764:

50 ATTCCCTTAT CGCATTCGT AAAATGATCT TCATCAGAAA TTGCTTCGAT ACGTTTATG 59

(2) INFORMATION FOR SEQ ID NO: 1765:

(A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1765:

10 GATTC AATTC ATCTGTATAG ACGATATATC CTGATATGAA TTGGAAATGG AATA 54

(2) INFORMATION FOR SEQ ID NO: 1766:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 85 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1766:

20 ATGCGATAGA AGCATTAGAC TCAAAC TATT TTCGGTTATG AGAATAACTC TGACATCCAT 60

25 ATGGATACTT AGTTTCCAAG TTAGA 85

(2) INFORMATION FOR SEQ ID NO: 1767:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1767:

35 CAGTACTGCT GAATGATGCT ATTGATTTTC TCATGAGACA TGGCGATAAC ATCG 54

(2) INFORMATION FOR SEQ ID NO: 1768:

40

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 116 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1768:

50 GncACTACTA ATCGTATCAG GATCACTAAT TAAGGCATCC AGCATCAGAT ACGAGCGCAC 60

GTGAGACTAA TCTACTGTCA TGATAAAGCA GCTGCTAAC TGTGAAGTTC GTGAAA 116

(2) INFORMATION FOR SEQ ID NO: 1769:

55

(A) LENGTH: 82 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1769:

10 GTTCTATCCA ATATGGAAT GAGGACATTA TGCSTGAAAG CTATGGACGA TGGACGATGG 60
 TACACGCATG TTGTGTAAGC AG 82

(2) INFORMATION FOR SEQ ID NO: 1770:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 152 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1770:

25 TATCTGTATT GTAGTAATCC GCTTCTCCCA TCTATATAGG GATCTTTCGT AGATATTCAC 60
 TTTATGCCTA GGATCCAAGA TGTGTAAGCA GCACITTGCA TTATCTAATG CAAAGGGnAC 120
 ATGCGGCTGT AAGCCCTGTT CTGATAATCA TA 152

30

(2) INFORMATION FOR SEQ ID NO: 1771:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 51 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1771:

40 TGGAGGCGAA GTAAATGAAA AGTATTACGT TTGAAGAACA TTATGTCATT G 51

(2) INFORMATION FOR SEQ ID NO: 1772:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 232 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1772:

nGAAACAAAT ATCTGTGAG ATATGCAATG ATGACTATAA GTAACATTAA AATGAAGCCC 60

55

CGTACACCAA TTATATCTTT GTGGnTGTTA TATTAAATCT ATATTATGTT CATTTAACAG 180
 5 CATATGTTAA AAATTGACAG TTAACACATG TAGCTATTGG ATGTGAATGT GC 232

(2) INFORMATION FOR SEQ ID NO: 1773:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108 base pairs
 10 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1773:

TAATGTCCCC CAGAATGTAG GCAAATGCAG AACCTGGTTT TAGGGTCAAC TGTTrTTCT 60
 CCAAGCAGAA ACAAGTTCT TGTGTCAGTG CACTTTTGGT CCACCATT 108

(2) INFORMATION FOR SEQ ID NO: 1774:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111 base pairs
 25 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1774:

CGCAATTGAA GGATACACTA TTTTAAGAGC TGCAAACATG CGGGTGTAAc GTGTGGTATA 60
 CTGCAACTTT GGTnATTGGT TTAGTATAAG ATAAATCAT CACAATGAAT C 111

(2) INFORMATION FOR SEQ ID NO: 1775:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73 base pairs
 40 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1775:

CAGGTTATCA GCTAATAGAT ATGTTGAAGA GGCAGITGCA GGCCAAATGA AACTGCAGAT 60
 GTAGTTcAGT ACC 73

(2) INFORMATION FOR SEQ ID NO: 1776:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 67 base pairs
 55 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1776:

TAGACACAGT GCAAAATCTG GTACAGCTTA TGAATTAGA CGGGTAAAGC AAATTACTGA 60
GTACCCA 67

(2) INFORMATION FOR SEQ ID NO: 1777:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 127 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1777:

GTATGCCAGT GTCATTGCTG AAAACATCAA CCATTCCCTG CACCAAAATT TTTGGTAGA 60
GTTTGATGCT GGCCATCCTC CAAGGGACTA AGGGTAATTT TgntTAAAAA GAGCCAAAGG 120
CCCAATG 127

(2) INFORMATION FOR SEQ ID NO: 1778:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 236 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1778:

GAACCCAAAA ATTAGCAACA GTGGCTACAA TAGTTGGGCA CTGAAAGCCA GCCAAGTGGG 60
ATTTTtagCC CTtGATTtGA AAGCGGGGTC CCCAGGATTA AAAAATTtAA ATTAGCCTAA 120
TAAGCCCAAA ATTCCCATTT GGAAAAGGAA ACCTCCTTAA ATTGGGtTGG AAAAAAGhTT 180
AAAAAAAAA AGGCCCAgNC CTtGGAATTT TtTGGAATTG GAAAAGGAA TtAAAA 236

(2) INFORMATION FOR SEQ ID NO: 1779:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 50 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1779:

(2) INFORMATION FOR SEQ ID NO: 1780:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1780:

GAAGACTCGC TTCTATTTTA AAATCCGGCG TACTTgGTTA TATAAATATC ATAATGGTTA 60
 AAATTAAAAA GCAATGTCAG TTCACACTAT TACTGACATT CTTTtAGTTA TGTGTATATT 120
 ATTCAITCAC AAGCTTTTGG TCTATAAATC GAGTGATTGG CTTTGTtTGT ATATAACCAT 180
 CTGCTACATA TTCATCGTTC AITGTAAATTA ATGGATAAAA TAGTTCATCh n 231

(2) INFORMATION FOR SEQ ID NO: 1781:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1781:

GTCTCCCTGC CCCACATTTA ACATGTGAAT TTTGTGATGT GAATTTGTTG GAAACGTTAT 60
 TAATAATGTC AGAATAATTA TAGTCCAAAA CGTAACCAAT ATATATTAC GTTTAGCCAA 120
 TAACCAAAAT ATGTAATAAA CAGAAAATTAT AAATACTATA AATATCCAAT CATTAAACTT 180
 GGGAACAGAA AAATGTGATT GCTTGATTCT 209

(2) INFORMATION FOR SEQ ID NO: 1782:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1782:

GTAAACCTTA GTTAGATAAA ATGCAAAATCA CATTATTGTA GATAGTCTCT TTTC 54

(2) INFORMATION FOR SEQ ID NO: 1783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1783:

TCTGGAATGT CTCCTTGTCT CTCTATATAG CTATAGTCCG TCGCAAGCGG ACGTAATGTT 60
CATTTTCATA ATGATTATAG TATGAAAGCG CTTTCTTGTA TATGTGACAT GTGCGTGThG 120

(2) INFORMATION FOR SEQ ID NO: 1784:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 57 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1784:

CTACCATTTA CATAAAGACC GTCTAATTCT TCAGTTCAA TGGCATTITG GAGCAAT 57

(2) INFORMATION FOR SEQ ID NO: 1785:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 54 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1785:

TCATAACCAT TACCAAGTAT CCAAGCAGCT TTATAACAAT ATGGCATAAA CATT 54

(2) INFORMATION FOR SEQ ID NO: 1786:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 84 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1786:

GGATGGGTGA TTTTAGCAGS TTGGCTATG AGTACCGTAT TTGCATTAGG ACCGATTTCA 60
TTTAACAAAA TCATAATTTT GGGC 84

50

(2) INFORMATION FOR SEQ ID NO: 1787:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 134 base pairs

55

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1787:

CCGGTTTACC CTTAAATTA TTTTGGGG GGTCCATTA AACCTCCAA TTCCCAATTA 60
ACCCnACCC CCCTGGGTTT TCCTTAAAA CAAAAGGCC CTTTTTTC CCAACCCAAC 120
CTTGGGGGAA TTGG 134

(2) INFORMATION FOR SEQ ID NO: 1786:

15

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1788:

TATATCAACT AAAAAGCGCA TCTGCAACCG ACGGTTGAAA ATTTGGACAG GAGACAGATA 60
ATGTAATATA 70

(2) INFORMATION FOR SEQ ID NO: 1789:

30

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 50 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1789:

AATATCCAAT TATACAAGCA GGTATGGCAG GAAGTACGAC ACCGAAATTA 50

(2) INFORMATION FOR SEQ ID NO: 1790:

40

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 50 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1790:

TGATTACTA GCTGAATCCG ACATGCTTGA TGATACACTA TGTGAATTCA 50

(2) INFORMATION FOR SEQ ID NO: 1791:

55

(A) LENGTH: 58 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1791:

10 CCGGACGCTT TACTTCCAAC TTAGGTGGT CAACACAGGT TTAACATGG CGATGTCA 58

(2) INFORMATION FOR SEQ ID NO: 1792:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1792:

20 CATCATCCTC TAAATTAGTC CAAACTCTG GATGATATCC AAATGAAGTT CCAATTGA 58

(2) INFORMATION FOR SEQ ID NO: 1793:

25

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1793:

35 CACAAGTTT AGAAGGAAAC CAATAACAAA TGACGAGATT AATTGCCACA AACATTACG 60
 AC 62

(2) INFORMATION FOR SEQ ID NO: 1794:

40

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1794:

50 AAGGCCCGGG GGGTTTAAAA AAAAAGGTTT AAAAAGGnT TTGGCCCTTT AAACCCAAAG 60
 GGAATTTTA ACCCCAAAAA AAAAAACCC CTTGGGAAA GGG 103

(2) INFORMATION FOR SEQ ID NO: 1795:

55

(A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1795:

10 TATCGATCGA TCATGTCGAA TCGATCTGTC GATCGATCGT ATCGATCGAA TCGCGTCGAA 60
 TCGAAThCGT CGAATCGATG CTATCGATCG AATGCTATCT GAGTCGAATC ACGTCGATCT 120
 G 121

15 (2) INFORMATION FOR SEQ ID NO: 1796:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1796:

25 AATTCATGTT AAAAATCTCC TGATATTAGA TGGCCCATTT TTATTTTTTT CGTTTCCATA 60
 TA 62

30 (2) INFORMATION FOR SEQ ID NO: 1797:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 397 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1797:

40 CATACTCGAC AATTTAGATG GTGAaTACTT ATCATTTAAG TCCTTTGaaC CCTCATCTAA 60
 AATTCAGGA CTTTAAACAA TTCTTTTATA CGTATTTACA AGTTGAATAT TACTTTGAAC 120
 CTCTTGCGCC ATAACTGAG GATTGTACC CTTAGTTTGA TTCACTAAAA TTGAGTATT 180
 45 AGCTTGATAT TTAGGTGATA AGACGAAAAA TGTAAACAATA GCGCTAATAA TTAaaaaATAA 240
 TAGCGGTAAA ATAATTAAAA TCCTCAAGTT TTTTGTAAAT ACTTCTTTAA TTTTGTATA 300
 TTCTAATGTA CTTTCCATTA TTACCTCCC TTAaaaaATT TCATTAAAAAT TGGTATTATA 360
 50 TATATAGTAT TTACATATTA CATATCGTTT AAACAAT 397

(2) INFORMATION FOR SEQ ID NO: 1798:

55

(A) LENGTH: 66 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1798:

10 CCGGTAACAG CGAATGGTGT GTCACCGTAT ATAACTTTAC TATTTAATAT TTGGCCTGTT 60
 GCTTTC 66

(2) INFORMATION FOR SEQ ID NO: 1799:

15

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799:

25 GTTGCTAAGT TTGTATTACA ATTAAATGA TTTTAGCTT GAGTAAGTTT ATTTAAAGAT 60
 GCAGTAATT CGCTAGG 77

(2) INFORMATION FOR SEQ ID NO: 1800:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 172 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800:

40 TAATGCTATT TAATTTCTA CTTCTAAGC TTCCACCCAT AACGAGTAAn ACITTTTTTAT 60
 TTTTATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC 120
 GAATTGTTCG TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT 172

45

(2) INFORMATION FOR SEQ ID NO: 1801:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 140 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1801:

55

AGTAAATTT GTCATCAGCA TCAGCAAAAG CTTTGTATTC TGACGTATCT TCCATAAATG 120
 ATCTAAAAAT TGGTAGTTGC 140

(2) INFORMATION FOR SEQ ID NO: 1802:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1802:

ATCCCCCGTA CAGACTTCAG CTTACGTAAA CATGCTGAAC ACTCTAGTGA AGATTCAAAA 60

(2) INFORMATION FOR SEQ ID NO: 1803:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1803:

CAATTAAAT GCATCTTTC CATTAAATTC ATTGTTGTC GCTTAGCTG TGTAAATTAA 60

(2) INFORMATION FOR SEQ ID NO: 1804:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 50 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1804:

ACTTGATCGA AAAGGTTTCA TACCGGTAAA CGATAAAGTT GAAACAAATG 50

(2) INFORMATION FOR SEQ ID NO: 1805:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1805:

(2) INFORMATION FOR SEQ ID NO: 1806:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1806:

AAGAACTGTC TATGAATATT GGATGACGCT TTGATGAGAA CATTAGTAAG CCATTTGTTC 60
 AAGGAGTACA 70

(2) INFORMATION FOR SEQ ID NO: 1807:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1807:

TAGCATTTCT AATGGAATCC AATCTTACCG AATGACAATT GGAATATAAC TGGTGATAAT 60
 GTTGAATGGT CCTGTGA 77

(2) INFORMATION FOR SEQ ID NO: 1808:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1808:

CCCGGCCCAA AACCCCTTTT TTGGGTAAAA AATTTTTTTT AAAAAGGGAA AAATTTCCCC 60
 TTTTTTGGTT CCCAAATTTT AAATTAGAAA GGGCCCCCCC TTCCCCCACA AATnTTTCCC 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 1809:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1809:

5 AAGTTTGGTG AAGGAACCAC GTGCATGATG GTGTTCAAAC AATGCGTTAC GATGTTGACG 60

(2) INFORMATION FOR SEQ ID NO: 1810:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 58 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1810:

TGGTTGAGAA AACACAGCCT TAAAGTTGAG GTATTTCAAA AGACAAGTTG GAACATTA 58

(2) INFORMATION FOR SEQ ID NO: 1811:

20 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 55 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1811:

30 CTTAAATAGC AAGTGGTTTT ATAACAATT TGAGTTATCT CAATATAGTT ATCGC 55

(2) INFORMATION FOR SEQ ID NO: 1812:

(i) SEQUENCE CHARACTERISTICS:

35 (A) LENGTH: 50 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1812:

TAAGTCTTCA ATTTTTCAG TTGATACACC TAAGTGATAC AGCCATTCTT 50

45 (2) INFORMATION FOR SEQ ID NO: 1813:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 50 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1813:

55

(2) INFORMATION FOR SEQ ID NO: 1814:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1002 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1814:

```

TGTCATGCG GGAATACTA GGACATGAAA ATTATGCTAA AGGCATCAAA GTAACGTAAA      60
ATAATGGCGT AGTGGATATA GATATGTACA TTATTGTAAG TTACGGTGTG AAAATATCTG      120
AAGTTGCCAA TAATGTACAA TCAACAGTGA AATATACTTT GGAAAAATCA CTTAATGTAT      180
CAGTAAATTC AATCAATATA TATGTACAAG GTGTACGTGT GAATAATACA GGCAAGAAAG      240
CTTAGGAGGA CAACTTGAAA TGATTAGCAA AATTAAATGGT AAATTATTTG CCGATATGAT      300
TATACAAGGG GCACAAAATT TATCTAACAA TGCAGATTGT GTAGATTCTT TGaATGtGtA      360
TCCAGTGCCA GATGGtGATA CAGGAACAAA TATGAATCTT ACTATGACTT CAGGTCGCGA      420
AGAAAGTAGAG AATAATTTGT CGAAAAATAT CGCGAATTA GGTAAACAT TCTCGAAAGG      480
TTTACTAATG GGTGCAAGAG GTAAChCTGG TGTCATCTTG nCACAAATTAT TCAGAGGATT      540
TTGTA AAAAT ATTGAAAGTG AATCTGAAAT TAATTCAAAA TTGTTAGCTG AAAGTTTnCA      600
AGCTGGTGTT GAAACGGCAT ATAAAGCTGT TATGAAACCA GTTGAAGGTA CAATACTTAC      660
AGTTGCAAAA GATGCTGCGC AAGCTGCAAT AGAAAAAGCA AATAATACTG AAGATTGTAT      720
AGAATTAATG GAGTACATTA TTGTA AAAGC CAATGAATCA CTTGAAAACA CACCRAACTT      780
ATTAGCTGTA CTTAAAGAAG TTGGTGTGTG TGATAGTGGC GGTAAAGGTT TGTATGCGT      840
TTACGAAGGA TTCTTAnAAG CGCTTAAAGG TGAnAAAGTT GAAGCCAAAG TTGCAAGAT      900
AGATAAAGAT GAATTTGTAC ATGATGAACA TGATTCCAT GGTGTAATTA ATACTGAAGA      960
TATTAATTTA TGGCTATnGT ACTGAGATGA TGGTTCGTTT TG                          1002

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(2) INFORMATION FOR SEQ ID NO: 1815:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 351 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1815:

5 GACAACGCTA TTATTTTITAG TTTTTCaATT CTATTATGTC ATAATTATGT CACTCAAAAA 120
 CTGTTTTTCCA ACATTGATTT ATTGTTGGAA AATCTCGAAA ATCTAGTCTA TTTCTCCAAC 180
 AATCGAAGAr TTATGCCCTT TTTTCTCCCT TTAATAAGT CATAATACGA GGCATACATG 240
 CAACATTTAC AATAAAATAT GTTCCTACAT CGTATTATAC GAATGCTCAC ACTTATAGTT 300
 10 GTTTAGTAAA CCCAGATGTA TTGCTAACAT ACCCATHnC nCTATATAGT T 351

(2) INFORMATION FOR SEQ ID NO: 1816:

15 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1816:

ATATCGTATC CCATGCGGGA AGGGCTTTAT TTATACTGTG CACGATGAAT GCGCACAACG 60
 25 GG 62

(2) INFORMATION FOR SEQ ID NO: 1817:

30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1817:

AAAGGGGGGA AATTTTTITIT TTTTGGGTTT GGGGGGAAAA TTTTTTITGG GTTTGGGAAA 60
 40 TTTAAATTAA 70

(2) INFORMATION FOR SEQ ID NO: 1818:

45 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 51 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1818:

CAAGTTCGGA ATGCGAACGC GTCTTAATCT ATATACAAGT GATGCACTCC A 51

55 (2) INFORMATION FOR SEQ ID NO: 1819:

(A) LENGTH: 52 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1819:

10 TCGCCATACT ATCAGACAGCT GCTAAAATTG CGCTCTTCTT GTGTGCGCAAT CG 52

(2) INFORMATION FOR SEQ ID NO: 1820:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 58 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1820:

CAAATTGGGG AAATTACTAG AATGAAGAT ATTATAAAG ATGACTGGAC GTCAACTT 58

25

(2) INFORMATION FOR SEQ ID NO: 1821:

(i) SEQUENCE CHARACTERISTICS:

30

(A) LENGTH: 58 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1821:

35

ACTGCTTCAG CACCTGTATT CATTGGGGAA AGCTTTATCG TTGACCGGCC AGTTTACA 58

(2) INFORMATION FOR SEQ ID NO: 1822:

(i) SEQUENCE CHARACTERISTICS:

40

(A) LENGTH: 190 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1822:

ACCTGTTGCT CGTGTCAATA ATAGGTGACT ATAAATCTCT GTTCAATATA CTTTTCGTTT 60

50

TTCCAATCTT AAAGGTCGAT GTTCGTGAGT AATCTTATCT CTGGnCCAAT TTAAATGTCA 120

TGATATGTTC ATAGTATCAC CCCTTTGTTG TGTAAATAA ATCAGGTGGG TGGTTAGAAC 180

55

GGTGTGAATA 190

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 50 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1823:
 AGCnTTAGCn TATGGTTTAG ACACAACTGn TAAAGATGCh AAGTTCTTGT 50

(2) INFORMATION FOR SEQ ID NO: 1824:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1824:
 AAAAAATTGGA AAAAAAGGGC CCAAAGGTTA ACCCAAATTG GAAAnAAACC CAAATTTTTT 60
 GGAATTAAC CCAAAAATTG GCCCCCAATT GGAACCCAAA AT 102

(2) INFORMATION FOR SEQ ID NO: 1825:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1825:
 ACGTACCAAT GTCATAATCA GTCATTITAC CACTCTTAAT AATCTGCTTC CGGGCAA 57

(2) INFORMATION FOR SEQ ID NO: 1826:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1826:
 ACCATCTTGT ACAAAGTGGG TGTCATATGC ACCATCTTGT GTTTGAGCT GCATTTAATT 60
 G 61

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1827:

ACGTTTGGC CAAGCGACC TAATTTCTCA GCAATATTC TTTCTACGCC ACCAAT 56

(2) INFORMATION FOR SEQ ID NO: 1828:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1828:

ACTTAGGG CGCACTTATT TTTCGCTTCC ATAGCGAAAC TAGTGCTACT TATACGTATG 60
 TG 62

(2) INFORMATION FOR SEQ ID NO: 1829:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1829:

GCTACACAG ATTTACCTTT CTGTCACTG TTGCGACCA TCATTGTGAT GATA 54

(2) INFORMATION FOR SEQ ID NO: 1830:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 67 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1830:

GTAATGACCA TCGTGATTT ATGACATTGT TAGATCTCAT GTGCCATTTA GTCTGCTGAA 60
 TCTTGGG 67

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 50 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1831:
 ATAACCTCTTC GACAACTCC TCAACAACT TCTGTGTTC CATCTTCTGG 50

(2) INFORMATION FOR SEQ ID NO: 1832:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 101 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1832:
 AAACGTAAGA ATATTTAATG GAGCCAAGAA TGGTTTACAG ACGGAGAAAT GGGATATGTT 60
 GAAGCGAGGC GTACGCGGAA AGCGTACTAG GCTAGAACAC T 101

(2) INFORMATION FOR SEQ ID NO: 1833:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 50 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1833:
 TCGTCATCAT GTCTGIGTTA CCAACGTTTG ACGATTTANT TCATGCnGAA 50

(2) INFORMATION FOR SEQ ID NO: 1834:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1834:
 ATAAGTTAAT TGATTATTG ATAAAGAGAA GCCAGATTIA AATATTATIA AACGT 55

(2) INFORMATION FOR SEQ ID NO: 1835:

(A) LENGTH: 58 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1835:

10 AAACAAGAAC CCCCATATGG TTAAGCTGCG CGTTTCAACA TACGGGGGGT TTTCATAT 58

(2) INFORMATION FOR SEQ ID NO: 1836:

(i) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 125 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1836:

TACGTTTTAT AAAACAAGA ACTAAAGTAT GCAGTGTGAA TTGTTCACTT TcTGGCGTT 60

25 GGAATTGATT AAAACGAGAT ATGGTGTGTG GGAAGTTGTT TGTGTTTGCA TATTTTAAAC 120

CGATT 125

(2) INFORMATION FOR SEQ ID NO: 1837:

30

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1837:

40 AATCTACAAT CCTGAATCAC TCGTTAAGAT TAAAAGTATC GACAATGAGT ATCTGAACAT 60

GAGCTCATCT GCCGTTTTTA ATGChAAAAA CCGCGGCGCG GATATTTTGG ACCACGGC 118

(2) INFORMATION FOR SEQ ID NO: 1838:

45

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 141 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1838:

55 ATTTGGGGTT TTGGGACCC TACCCAAAAA TTGGGGTTTG GTTATTAAAA AAAAGCCATT 60

GTCCAGTTT TTGGATTGC C

141

(2) INFORMATION FOR SEQ ID NO: 1839:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1839:

TCTGGGGACT AAGTATGTCT CAGGCTTAT GCTGTATGT TTGAAAATGA AAGG

54

(2) INFORMATION FOR SEQ ID NO: 1840:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1840:

ATTAAAAAC CTTTTAAAC CGGGAACCA AGGAAAAATT CCGGGTTTTA ATTAAACCT

60

TTTGTTAATT GGTCCAAAC CAACCTTTTG GTTAAATTTT AACCAGGAAT TTTGGAAAAC

120

nGTTTTATTT GGA

133

(2) INFORMATION FOR SEQ ID NO: 1841:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 50 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1841:

AAAGTATGGA TTGATCGTG AGAAGTCTT CCTACTAAGA ACACTAGTCG

50

(2) INFORMATION FOR SEQ ID NO: 1842:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

GCGTTTTCCT GGGATATGTT TGATGAATGG ATGTGTGAAC ATGTAATAA ATCGTTGGTA 60

(2) INFORMATION FOR SEQ ID NO: 1843:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1843:

CTGAGATGAA TATTGTGTT CGCCATACAT ACTGGGTAAT ATCCCAACCA TTGCTGTA 60

(2) INFORMATION FOR SEQ ID NO: 1844:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 125 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1844:

CATTACCTGT AAAAGGAAGC TAAAGACGAT GAGTATTAT AGAAACCAAT TGCCGACCAT 60

TTGCAGCCAT TAGGAGGGTA GGAGGGCAAT CGCGnCCAAA GGTATTAAAC CGTCAATTAC 120

CTTGA 125

(2) INFORMATION FOR SEQ ID NO: 1845:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 126 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1845:

ATCCACCTGG GTTGTGTTT AATTAACTT GntAATTAAAT TGGGTGGGT CCGGCAAAAG 60

TCCGAGCTG CAAATCGGAT TTTATCGTTA AATCTTGAAT TCTATTGCC ATATTAAATC 120

GCAAAAT 126

(2) INFORMATION FOR SEQ ID NO: 1846:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1846:	
5	TTTTGGGAAT AAACCAATTA ATCATGGGCA AAAAATAAGC AATCCAAGTA CTTACTA	57
	(2) INFORMATION FOR SEQ ID NO: 1847:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1847:	
	TGATAAATAT TTCATCTAAA GAGAGGGAGT CATTATGACA CTACTTACTG	50
20	(2) INFORMATION FOR SEQ ID NO: 1848:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1848:	
30	ATCTAGGCCAA TGAATGGACG GACTTAATAT TGATGTGCAA CAAGAAGAGG AGAAGCGAAT	60
	CAATA	65
	(2) INFORMATION FOR SEQ ID NO: 1849:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 244 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1849:	
45	CGTGTGAAGT CATTACTTTT AATCCCATGA TGATGGTGAT GGATGAGACG ATATCTCTCT	60
	GTCTTTAACA GTTAAGTCCA ATTCTTCCAA CGAAACTTTT CCATAGGTTG TTTTATAAGT	120
	TGGAATACCT GCACAAATCA TaccTAATTG CTATCAATT TTCTCAAGAC TGTTCATCAGT	180
50	TATAAGATCA ATTTTATTAA TAATAATCAT GTCACTTAGT TTCAACTGAT CTTCCATCAG	240
	GCGA	244

55

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1850:

TTTAAAGGTT CCCGAAAAGG TTTGAAACCA AACCTTTGCC CCGGCCCCCC GGGAAAAAAA 60
 AAAnTTGGTT TAACCCCCGG GGGGGGGGGC CCTTAAAAAA ACCCAA 106

(2) INFORMATION FOR SEQ ID NO: 1851:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1851:

TTTTTAAAGG CCCTTGGGGG GCCAATTTTC CCCCCCCCC AACCTTCCAA AGGTGGGGG 60
 GCCTTTTTTT TAAATTTGGG GGA 84

(2) INFORMATION FOR SEQ ID NO: 1852:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1852:

TCATGATTAA AATTCAACAA TTACAACATC ACTTTGGATC ACATAAGAGT AA 52

(2) INFORMATION FOR SEQ ID NO: 1853:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1853:

ATAAAACATT TCAAGATGCG CTTGTAATTG TATGTGATAC TGCCAATGCT CCACGA 56

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1854:
 AAAAGATCAT GGCATAATG ACATGGTGAT GATATGAGTA TGATGGTGGG TACA 54

(2) INFORMATION FOR SEQ ID NO: 1855:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1855:
 ACAAACAAATG GTAATGCATA AACATACAGC CAATAGCTAC AATTGCACGA CG 52

(2) INFORMATION FOR SEQ ID NO: 1856:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1856:
 ACGGTGCAC TCATCATGGT CTGTGGCGTG ATTGTTAATG TTTTAGTTGC CCGCTTC 57

(2) INFORMATION FOR SEQ ID NO: 1857:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 192 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1857:
 GCAGATAACT TCCTTGATCC TAACAAAGCA AGTTCCTAT TATCTTCAGG GTTTTCACCA 60
 GACTTCGCTA CAGTTATTAC TATGGATAGA AAAGCATCCA AACACAAAC AAATATAGAT 120
 GTAATAACG AACGAGTTCG TGATGACTAC CAATTGCACT GGACTTCAAC AAATTGGAAA 180

(2) INFORMATION FOR SEQ ID NO: 1858:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1858:

CGCTGCACTT CCTGAACGCA GTGAGACCAG AACGTGGTGT CACTTTCGGT CTATTCGGT 60
 TAAGTGTTGG TCTCGGA 77

(2) INFORMATION FOR SEQ ID NO: 1859:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1859:

TTTGGCGTTC GTGATTTTCT CTAGACGTAG TAACTTTCCC ACTCTTTGCG TCC 53

(2) INFORMATION FOR SEQ ID NO: 1860:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1860:

TTTCTCACTC GCGCATTICA GTTTGTTTGG ATTACCCGT CTCTTCTATT TGCTTAAT 59

(2) INFORMATION FOR SEQ ID NO: 1861:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1861:

AATGAATGTA TGCACATTAA CATCATCAAT TAATCCTTTT AATAAATTGA GTTGTAATTT 60

(2) INFORMATION FOR SEQ ID NO: 1862:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1862:

ATTAACTACTG AGCAATGTG CATAAGACAT CATGAATTAG CACCAATTTA CAGG 54

(2) INFORMATION FOR SEQ ID NO: 1863:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1863:

TTTAACCATC ATTCTATGTC AAAGTTTGA AATGATGGTT ATTTTTTATT GCTTAAATTT 60
 ATTATGCTA CTACTATACC AATGAAAGT 89

(2) INFORMATION FOR SEQ ID NO: 1864:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1864:

AAAGCTGGTA CGCCTGCAGG TACCGGtCCG GAATtCCCGG GTCGACCCAC GCGTCCGGAA 60
 CCAAAATTGC ATCTGATGGT CTCAAGGGTC GTGTGTTTGA AGTGAGTCTT GCTGATTTC 120
 AGAATGATGA AGTTGCAITTT AGAAAATTCA AGCTGATTAC TGAAGATGTT CAGGGTAAAA 180
 ACTGCCTGTA CTAACTTCCA TGGCATGGAT CTTACCCGTG ACAAAATGTG TTCCATGGTC 240
 AAAAAATGGC AGACAATGAT TGAAGCTCAC GTTGATGTCA AGACTACCGA TGGTTACTTG 300
 CTTGCTCTGT TCTGTGTGG TTITACTGAA AAAACGGCAA CAATCCAGAT ACGGGAnGAC 360
 CTCTmTGCT GCAGCACCAA CAGGtnCCGC CAAATCCGGA 400

(2) INFORMATION FOR SEQ ID NO: 1865: